Molecular and physiological adaptation to prolonged drought stress in the leaves of two Andean potato genotypes

Shrinivasrao P. Mane[A,G], *Cecilia Vasquez Robinet*[C,G], *Alexander Ulanov*[B], *Roland Schafleitner*[D], *Luz Tincopa*[D], *Amelie Gaudin*[D], *Giannina Nomberto*[D], *Carlos Alvarado*[D], *Christian Solis*[D], *Luis Avila Bolivar*[D], *Raul Blas*[D], *Oscar Ortega*[D], *Julio Solis*[D], *Ana Panta*[D], *Cristina Rivera*[D], *Ilanit Samolski*[D], *Doris H. Carbajulca*[D], *Meredith Bonierbale*[D], *Amrita Pati*[F], *Lenwood S. Heath*[F], *Hans J. Bohnert*[E] *and Ruth Grene*[C,H]

[A]Virginia Bioinformatics Institute, Virginia Tech, Blacksburg, VA 24061, USA.

[B]Biotechnology Center, University of Illinois, Urbana, IL 61801, USA.

[C]Department of Plant Pathology, Physiology, and Weed Science, Virginia Tech, Blacksburg, VA 24061, USA.

[D]Centro Internacional de la Papa, Lima, Peru.

[E]Departments of Plant Biology and of Crop Sciences, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA.

[F]Department of Computer Science, Virginia Tech, Blacksburg, VA 24061, USA.

[G]These authors contributed equally to the work.

[H]Corresponding author. Email: grene@vt.edu

Accessory publication

Table S1. Primers used for confirmatory RT PCR of selected genes. Gene IDs are taken from the TIGR Potato Database

Gene	ID	Strand	Primer sequence
Sucrose synthase	TC135042	FW	GGACTCACGGTGGTTGAA
		RW	CCGTCCTGAATGATCTCC
SNF-1-related protein kinase	TC132860	FW	CCAAGGATGCTAATTGTTGAC
		RW	GCAGGAGACTGAAGTCCAAC
Lipid transfer protein 1	TC 145196	FW	TGGTGGTGTTAAGGGTCTGTT
		RW	GCTTTTCCCGTATCAATGC
Superoxide dismutase	TC139039	FW	TACACACCGCTGCTCACC
		RW	AGTCAGGTCGGCGATTCT
Peroxiredoxin	TC 141787	FW	AAGGTTGTTCTTTTCGCTGTC
		RW	CGAAACCAGGAAGGTGTT

Table S2. ANOVA analysis of metabolite data

Significant P-values ($P \leq 0.01$) are in bold face

Factor Metabolite/d.f.	G 1	T 1	TP 2	Pr(>F) (G × T) 1	(G × TP) 2	(T × TP) 2	(G * T * TP) 2
Alanine	**1.4E-15**	**<2.2e-16**	**<2.2e-16**	**2.4E-10**	**4.0E-16**	**6.3E-16**	**1.8E-11**
Ascorbic acid	**<2.2e-16**	9.6E-01	**<2.2e-16**	**<2.2e-16**	**1.8E-15**	**8.3E-03**	**1.3E-14**
Caffeic acid	**4.3E-03**	**1.1E-12**	**2.0E-15**	**1.1E-06**	**<2.2e-16**	**7.2E-09**	**3.5E-03**
Citric acid	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**2.4E-08**	**<2.2e-16**	**<2.2e-16**	**1.2E-15**
Fructose	**<2.2e-16**	**1.3E-09**	**<2.2e-16**	**2.3E-09**	**2.1E-09**	**1.5E-05**	**3.4E-04**
Fumaric acid	**<2.2e-16**	**5.5E-11**	**<2.2e-16**	**2.0E-04**	**<2.2e-16**	**4.2E-05**	**1.0E-04**
Gaba	4.4E-01	**9.0E-12**	**1.5E-06**	1.8E-01	**1.3E-05**	**9.6E-03**	**3.9E-03**
Galactinol	**3.81E-10**	**2.20E-16**	**1.06E-12**	5.88E-02	**8.89E-05**	0.07237	**2.59E-09**
Galactose	**1.2E-11**	**8.8E-12**	**<2.2e-16**	6.3E-01	1.8E-01	**8.4E-08**	**1.6E-13**
Glucose	1.8E-01	**6.5E-04**	**3.5E-16**	**9.1E-04**	**5.3E-08**	5.9E-01	**3.9E-04**
Glucose-6-P	**<2.2e-16**	2.3E-01	**4.2E-09**	**4.9E-03**	**<2.2e-16**	1.8E-02	**1.0E-10**
Glycerol	**2.20E-16**	**0.0062055**	**3.20E-07**	1.16E-01	**0.0001337**	**5.48E-05**	**2.67E-07**
Glycine	**1.1E-04**	**3.0E-15**	**1.4E-14**	**5.5E-03**	**2.1E-03**	**2.4E-12**	**1.5E-10**
Inositol	**4.09E-05**	**7.44E-15**	**2.53E-07**	**0.0001095**	**1.19E-06**	**<2.2e-16**	**0.001807**
Malic acid	**5.0E-08**	**7.3E-09**	**<2.2e-16**	**4.3E-15**	**6.4E-12**	9.5E-01	**2.0E-05**
Malonic acid	**<2.2e-16**	**1.3E-03**	**1.3E-12**	**1.1E-03**	**1.3E-12**	**4.3E-15**	**4.2E-15**
Maltose	**1.3E-06**	**<2.2e-16**	**<2.2e-16**	2.1E-02	**5.8E-13**	**4.4E-13**	**5.3E-03**
Melezitose	**4.4E-15**	**1.7E-12**	**<2.2e-16**	**2.1E-11**	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**
Melibiose	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**7.9E-12**	**<2.2e-16**	**<2.2e-16**	**2.6E-13**
Phenylalanine	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**
Pyruvic acid	**<2.2e-16**	**1.9E-10**	**4.5E-09**	**2.3E-07**	**1.1E-06**	**7.6E-06**	**1.6E-04**
Quinic acid	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	6.2E-01	**<2.2e-16**	**<2.2e-16**	**6.9E-14**
Rhamnose	**<2.2e-16**	2.1E-02	**4.8E-04**	**1.2E-03**	7.2E-02	**2.4E-05**	**2.2E-06**
Serine	**<2.2e-16**	**2.6E-11**	**1.0E-15**	**1.4E-07**	**4.6E-15**	**1.1E-04**	**3.3E-03**
Shikimic acid	**<2.2e-16**	8.9E-01	**4.8E-03**	**8.5E-03**	**1.9E-04**	**1.6E-06**	1.3E-02
Sorbose	6.0E-01	**2.3E-15**	**<2.2e-16**	**2.5E-11**	**<2.2e-16**	**6.4E-15**	**2.4E-07**
Succinic acid	**<2.2e-16**	**<2.2e-16**	**4.8E-07**	**<2.2e-16**	**8.1E-03**	**9.6E-06**	**2.2E-12**
Sucrose	**<2.2e-16**	**<2.2e-16**	**<2.2e-16**	**1.7E-14**	**1.2E-14**	**<2.2e-16**	**2.3E-11**
Threonic acid	**<2.2e-16**	**3.3E-15**	**<2.2e-16**	**2.0E-04**	**<2.2e-16**	**1.9E-07**	**1.3E-11**
Valine	6.9E-01	**<2e-16**	**<2e-16**	5.6E-01	1.8E-01	**<2e-16**	2.2E-01

d.f.: Degrees of freedom.

G: Genotype (Sullu or Ccompis).

T: Treatment (drought stressed or well watered).

TP: Time point (45, 60 or 75 days).

G × T: Genotype and treatment interaction.

G × TP: Genotype and time point interaction.

G × T × TP: Genotype, treatment and time point interaction.

Table S3.   LSD comparisons of genotype × treatment interaction

Significant *P*-values ($P \leq 0.01$) are marked in green

Metabolite	Comparison 1	Comparison 2	C1 mean	C2 mean	C1/C2	*P* value
ALANINE						
1	Ccompis:Control	Ccompis:Stress	124.50	238.19	0.52	0
2	Ccompis:Control	Sullu:Control	124.50	110.36	1.13	0.4014
3	Ccompis:Control	Sullu:Stress	124.50	151.38	0.82	0.1031
4	Ccompis:Stress	Sullu:Control	238.19	110.36	2.16	0
5	Ccompis:Stress	Sullu:Stress	238.19	151.38	1.57	0
6	Sullu:Control	Sullu:Stress	110.36	151.38	0.73	0.0145
ASCORBIC ACID						
1	Ccompis:Control	Ccompis:Stress	28.36	90.06	0.31	4.00E-04
2	Ccompis:Control	Sullu:Control	28.36	253.57	0.11	0.00E+00
3	Ccompis:Control	Sullu:Stress	28.36	192.31	0.15	0.00E+00
4	Ccompis:Stress	Sullu:Control	90.06	253.57	0.36	0.00E+00
5	Ccompis:Stress	Sullu:Stress	90.06	192.31	0.47	0.00E+00
6	Sullu:Control	Sullu:Stress	253.57	192.31	1.32	4.00E-04
CAFFEIC ACID						
1	Ccompis:Control	Ccompis:Stress	475.86	891.13	0.53	0.00E+00
2	Ccompis:Control	Sullu:Control	475.86	721.21	0.66	0.00E+00
3	Ccompis:Control	Sullu:Stress	475.86	830.13	0.57	0.00E+00
4	Ccompis:Stress	Sullu:Control	891.13	721.21	1.24	0.00E+00
5	Ccompis:Stress	Sullu:Stress	891.13	830.13	1.07	3.00E-04
6	Sullu:Control	Sullu:Stress	721.21	830.13	0.87	0.00E+00
CITRIC ACID						
1	Ccompis:Control	Ccompis:Stress	2276.71	5384.13	0.42	0
2	Ccompis:Control	Sullu:Control	2276.71	5156.86	0.44	0
3	Ccompis:Control	Sullu:Stress	2276.71	9986.50	0.23	0
4	Ccompis:Stress	Sullu:Control	5384.13	5156.86	1.04	0
5	Ccompis:Stress	Sullu:Stress	5384.13	9986.50	0.54	0
6	Sullu:Control	Sullu:Stress	5156.86	9986.50	0.52	0
FRUCTOSE						
1	Ccompis:Control	Ccompis:Stress	15374.64	20171.88	0.76	0
2	Ccompis:Control	Sullu:Control	15374.64	11991.36	1.28	0
3	Ccompis:Control	Sullu:Stress	15374.64	12047.50	1.28	0
4	Ccompis:Stress	Sullu:Control	20171.88	11991.36	1.68	0
5	Ccompis:Stress	Sullu:Stress	20171.88	12047.50	1.67	0
6	Sullu:Control	Sullu:Stress	11991.36	12047.50	1.00	0.0011
FUMARIC ACID						
1	Ccompis:Control	Ccompis:Stress	1039.79	500.88	2.08	0
2	Ccompis:Control	Sullu:Control	1039.79	1552.50	0.67	0
3	Ccompis:Control	Sullu:Stress	1039.79	1362.50	0.76	0
4	Ccompis:Stress	Sullu:Control	500.88	1552.50	0.32	0
5	Ccompis:Stress	Sullu:Stress	500.88	1362.50	0.37	0
6	Sullu:Control	Sullu:Stress	1552.50	1362.50	1.14	0
GABA						
1	Ccompis:Control	Ccompis:Stress	1891.29	2764.00	0.68	0
2	Ccompis:Control	Sullu:Control	1891.29	2079.86	0.91	0
3	Ccompis:Control	Sullu:Stress	1891.29	2722.50	0.69	0
4	Ccompis:Stress	Sullu:Control	2764.00	2079.86	1.33	0
5	Ccompis:Stress	Sullu:Stress	2764.00	2722.50	1.02	0.0107
6	Sullu:Control	Sullu:Stress	2079.86	2722.50	0.76	0
GALACTOSE						
1	Ccompis:Control	Ccompis:Stress	3042.79	4559.81	0.67	0
2	Ccompis:Control	Sullu:Control	3042.79	4545.79	0.67	0
3	Ccompis:Control	Sullu:Stress	3042.79	5908.19	0.52	0
4	Ccompis:Stress	Sullu:Control	4559.81	4545.79	1.00	0.3901
5	Ccompis:Stress	Sullu:Stress	4559.81	5908.19	0.77	0
6	Sullu:Control	Sullu:Stress	4545.79	5908.19	0.77	0

GLUCOSE

1	Ccompis:Control	Ccompis:Stress	14328.14	14376.44	1.00	**0.0044**
2	Ccompis:Control	Sullu:Control	14328.14	12139.86	1.18	**0**
3	Ccompis:Control	Sullu:Stress	14328.14	15208.38	0.94	**0**
4	Ccompis:Stress	Sullu:Control	14376.44	12139.86	1.18	**0**
5	Ccompis:Stress	Sullu:Stress	14376.44	15208.38	0.95	**0**
6	Sullu:Control	Sullu:Stress	12139.86	15208.38	0.80	**0**

GLUCOSE 6 P

1	Ccompis:Control	Ccompis:Stress	192.43	228.69	0.84	0.0296
2	Ccompis:Control	Sullu:Control	192.43	333.14	0.58	**0**
3	Ccompis:Control	Sullu:Stress	192.43	318.13	0.60	**0**
4	Ccompis:Stress	Sullu:Control	228.69	333.14	0.69	**0**
5	Ccompis:Stress	Sullu:Stress	228.69	318.13	0.72	**0**
6	Sullu:Control	Sullu:Stress	333.14	318.13	1.05	0.3578

GLYCINE

1	Ccompis:Control	Ccompis:Stress	128.29	271.06	0.47	**0**
2	Ccompis:Control	Sullu:Control	128.29	201.14	0.64	**0.0001**
3	Ccompis:Control	Sullu:Stress	128.29	285.88	0.45	**0**
4	Ccompis:Stress	Sullu:Control	271.06	201.14	1.35	**0.0001**
5	Ccompis:Stress	Sullu:Stress	271.06	285.88	0.95	0.3479
6	Sullu:Control	Sullu:Stress	201.14	285.88	0.70	**0**

MALIC ACID

1	Ccompis:Control	Ccompis:Stress	30333.29	19632.25	1.55	**0**
2	Ccompis:Control	Sullu:Control	30333.29	19520.36	1.55	**0**
3	Ccompis:Control	Sullu:Stress	30333.29	22023.75	1.38	**0**
4	Ccompis:Stress	Sullu:Control	19632.25	19520.36	1.01	**0**
5	Ccompis:Stress	Sullu:Stress	19632.25	22023.75	0.89	**0**
6	Sullu:Control	Sullu:Stress	19520.36	22023.75	0.89	**0**

MALONIC ACID

1	Ccompis:Control	Ccompis:Stress	13599.86	11614.31	1.17	**0**
2	Ccompis:Control	Sullu:Control	13599.86	15.14	898.10	**0**
3	Ccompis:Control	Sullu:Stress	13599.86	26.69	509.60	**0**
4	Ccompis:Stress	Sullu:Control	11614.31	15.14	766.98	**0**
5	Ccompis:Stress	Sullu:Stress	11614.31	26.69	435.20	**0**
6	Sullu:Control	Sullu:Stress	15.14	26.69	0.57	0.4788

MALTOSE

1	Ccompis:Control	Ccompis:Stress	411.07	562.63	0.73	**0**
2	Ccompis:Control	Sullu:Control	411.07	287.29	1.43	**0**
3	Ccompis:Control	Sullu:Stress	411.07	511.94	0.80	**0**
4	Ccompis:Stress	Sullu:Control	562.63	287.29	1.96	**0**
5	Ccompis:Stress	Sullu:Stress	562.63	511.94	1.10	**0.0021**
6	Sullu:Control	Sullu:Stress	287.29	511.94	0.56	**0**

MELEZITOSE

1	Ccompis:Control	Ccompis:Stress	521.86	271.19	1.92	**0**
2	Ccompis:Control	Sullu:Control	521.86	549.43	0.95	0.1054
3	Ccompis:Control	Sullu:Stress	521.86	539.00	0.97	0.2945
4	Ccompis:Stress	Sullu:Control	271.19	549.43	0.49	**0**
5	Ccompis:Stress	Sullu:Stress	271.19	539.00	0.50	**0**
6	Sullu:Control	Sullu:Stress	549.43	539.00	1.02	0.5222

MELIBIOSE

1	Ccompis:Control	Ccompis:Stress	295.86	541.44	0.55	**0**
2	Ccompis:Control	Sullu:Control	295.86	822.43	0.36	**0**
3	Ccompis:Control	Sullu:Stress	295.86	1916.50	0.15	**0**
4	Ccompis:Stress	Sullu:Control	541.44	822.43	0.66	**0**
5	Ccompis:Stress	Sullu:Stress	541.44	1916.50	0.28	**0**
6	Sullu:Control	Sullu:Stress	822.43	1916.50	0.43	**0**

PHENYLALANINE

1	Ccompis:Control	Ccompis:Stress	56.57	87.31	0.65	0.0634
2	Ccompis:Control	Sullu:Control	56.57	46.50	1.22	0.5494
3	Ccompis:Control	Sullu:Stress	56.57	228.63	0.25	**0**
4	Ccompis:Stress	Sullu:Control	87.31	46.50	1.88	0.015
5	Ccompis:Stress	Sullu:Stress	87.31	228.63	0.38	**0**
6	Sullu:Control	Sullu:Stress	46.50	228.63	0.20	**0**

PYRUVIC ACID

1	Ccompis:Control	Ccompis:Stress	48.50	70.63	0.69	0.1777
2	Ccompis:Control	Sullu:Control	48.50	518.36	0.09	0
3	Ccompis:Control	Sullu:Stress	48.50	672.50	0.07	0
4	Ccompis:Stress	Sullu:Control	70.63	518.36	0.14	0
5	Ccompis:Stress	Sullu:Stress	70.63	672.50	0.11	0
6	Sullu:Control	Sullu:Stress	518.36	672.50	0.77	0

QUINIC ACID

1	Ccompis:Control	Ccompis:Stress	2302.36	3191.69	0.72	0
2	Ccompis:Control	Sullu:Control	2302.36	1721.86	1.34	0
3	Ccompis:Control	Sullu:Stress	2302.36	2569.25	0.90	0
4	Ccompis:Stress	Sullu:Control	3191.69	1721.86	1.85	0
5	Ccompis:Stress	Sullu:Stress	3191.69	2569.25	1.24	0
6	Sullu:Control	Sullu:Stress	1721.86	2569.25	0.67	0

RHAMNOSE

1	Ccompis:Control	Ccompis:Stress	156.07	132.13	1.18	0.1453
2	Ccompis:Control	Sullu:Control	156.07	76.29	2.05	0
3	Ccompis:Control	Sullu:Stress	156.07	80.69	1.93	0
4	Ccompis:Stress	Sullu:Control	132.13	76.29	1.73	0.0012
5	Ccompis:Stress	Sullu:Stress	132.13	80.69	1.64	0.0019
6	Sullu:Control	Sullu:Stress	76.29	80.69	0.95	0.7867

SERINE

1	Ccompis:Control	Ccompis:Stress	112.71	151.13	0.75	0.0216
2	Ccompis:Control	Sullu:Control	112.71	763.57	0.15	0
3	Ccompis:Control	Sullu:Stress	112.71	994.31	0.11	0
4	Ccompis:Stress	Sullu:Control	151.13	763.57	0.20	0
5	Ccompis:Stress	Sullu:Stress	151.13	994.31	0.15	0
6	Sullu:Control	Sullu:Stress	763.57	994.31	0.77	0

SHIKIMIC ACID

1	Ccompis:Control	Ccompis:Stress	545.93	576.06	0.95	0.0686
2	Ccompis:Control	Sullu:Control	545.93	806.00	0.68	0
3	Ccompis:Control	Sullu:Stress	545.93	772.69	0.71	0
4	Ccompis:Stress	Sullu:Control	576.06	806.00	0.71	0
5	Ccompis:Stress	Sullu:Stress	576.06	772.69	0.75	0
6	Sullu:Control	Sullu:Stress	806.00	772.69	1.04	0.0449

SORBOSE

1	Ccompis:Control	Ccompis:Stress	4914.36	7120.25	0.69	0
2	Ccompis:Control	Sullu:Control	4914.36	5981.71	0.82	0
3	Ccompis:Control	Sullu:Stress	4914.36	6294.88	0.78	0
4	Ccompis:Stress	Sullu:Control	7120.25	5981.71	1.19	0
5	Ccompis:Stress	Sullu:Stress	7120.25	6294.88	1.13	0
6	Sullu:Control	Sullu:Stress	5981.71	6294.88	0.95	0

SUCCINIC ACID

1	Ccompis:Control	Ccompis:Stress	1834.43	1060.31	1.73	0
2	Ccompis:Control	Sullu:Control	1834.43	899.29	2.04	0
3	Ccompis:Control	Sullu:Stress	1834.43	983.31	1.87	0
4	Ccompis:Stress	Sullu:Control	1060.31	899.29	1.18	0
5	Ccompis:Stress	Sullu:Stress	1060.31	983.31	1.08	0
6	Sullu:Control	Sullu:Stress	899.29	983.31	0.91	0

SUCROSE

1	Ccompis:Control	Ccompis:Stress	1895.36	4519.75	0.42	0
2	Ccompis:Control	Sullu:Control	1895.36	23299.64	0.08	0
3	Ccompis:Control	Sullu:Stress	1895.36	33963.56	0.06	0
4	Ccompis:Stress	Sullu:Control	4519.75	23299.64	0.19	0
5	Ccompis:Stress	Sullu:Stress	4519.75	33963.56	0.13	0
6	Sullu:Control	Sullu:Stress	23299.64	33963.56	0.69	0

THREONIC ACID

1	Ccompis:Control	Ccompis:Stress	924.00	687.38	1.34	0
2	Ccompis:Control	Sullu:Control	924.00	1844.14	0.50	0
3	Ccompis:Control	Sullu:Stress	924.00	1348.00	0.69	0
4	Ccompis:Stress	Sullu:Control	687.38	1844.14	0.37	0
5	Ccompis:Stress	Sullu:Stress	687.38	1348.00	0.51	0
6	Sullu:Control	Sullu:Stress	1844.14	1348.00	1.37	0

VALINE

1	Ccompis:Control	Ccompis:Stress	150.14	342.31	0.44		**0**
2	Ccompis:Control	Sullu:Control	150.14	161.79	0.93		0.4892
3	Ccompis:Control	Sullu:Stress	150.14	340.69	0.44		**0**
4	Ccompis:Stress	Sullu:Control	342.31	161.79	2.12		**0**
5	Ccompis:Stress	Sullu:Stress	342.31	340.69	1.00		0.9176
6	Sullu:Control	Sullu:Stress	161.79	340.69	0.47		**0**

GALACTINOL

1	Ccompis:Control	Ccompis:Stress	3099.133	10045.267	0.31		0
2	Ccompis:Control	Sullu:Control	3099.133	6305.933	0.49		0
3	Ccompis:Control	Sullu:Stress	3099.133	11982.533	0.26		0
4	Ccompis:Stress	Sullu:Control	10045.267	6305.933	1.59		0
5	Ccompis:Stress	Sullu:Stress	10045.267	11982.533	0.84		0
6	Sullu:Control	Sullu:Stress	6305.933	11982.533	0.53		0

GLYCEROL

1	Ccompis:Control	Ccompis:Stress	1321.2	1706.667	0.77		0
2	Ccompis:Control	Sullu:Control	1321.2	4065.8	0.32		0
3	Ccompis:Control	Sullu:Stress	1321.2	4174.933	0.32		0
4	Ccompis:Stress	Sullu:Control	1706.667	4065.8	0.42		0
5	Ccompis:Stress	Sullu:Stress	1706.667	4174.933	0.41		0
6	Sullu:Control	Sullu:Stress	4065.8	4174.933	0.97		0

INOSITOL

1	Ccompis:Control	Ccompis:Stress	9639.467	12114.2	0.80		0
2	Ccompis:Control	Sullu:Control	9639.467	9747.667	0.99		0
3	Ccompis:Control	Sullu:Stress	9639.467	15252.733	0.63		0
4	Ccompis:Stress	Sullu:Control	12114.2	9747.667	1.24		0
5	Ccompis:Stress	Sullu:Stress	12114.2	15252.733	0.79		0
6	Sullu:Control	Sullu:Stress	9747.667	15252.733	0.64		0

Table S4.   LSD comparisons of genotype × treatment × time-point interaction
Significant *P*-values (*P* ≤ 0.01) are marked in green

Metabolite	Comparison 1	Comparison 2	C1 mean	C2 mean	C1/C2	*P* value
ALANINE						
1	Ccompis:Control:d45	Ccompis:Control:d60	125.50	111.00	1.13	0.63
2	Ccompis:Control:d45	Ccompis:Control:d75	125.50	137.20	0.91	0.69
3	Ccompis:Control:d45	Ccompis:Stress:d45	125.50	156.83	0.80	0.28
4	Ccompis:Control:d45	Ccompis:Stress:d60	125.50	186.20	0.67	0.05
5	Ccompis:Control:d45	Ccompis:Stress:d75	125.50	387.80	0.32	0.00
6	Ccompis:Control:d45	Sullu:Control:d45	125.50	118.25	1.06	0.82
7	Ccompis:Control:d45	Sullu:Control:d60	125.50	111.60	1.12	0.64
8	Ccompis:Control:d45	Sullu:Control:d75	125.50	102.80	1.22	0.45
9	Ccompis:Control:d45	Sullu:Stress:d45	125.50	112.17	1.12	0.64
10	Ccompis:Control:d45	Sullu:Stress:d60	125.50	189.80	0.66	0.04
11	Ccompis:Control:d45	Sullu:Stress:d75	125.50	160.00	0.78	0.25
12	Ccompis:Control:d60	Ccompis:Control:d75	111.00	137.20	0.81	0.35
13	Ccompis:Control:d60	Ccompis:Stress:d45	111.00	156.83	0.71	0.09
14	Ccompis:Control:d60	Ccompis:Stress:d60	111.00	186.20	0.60	0.01
15	Ccompis:Control:d60	Ccompis:Stress:d75	111.00	387.80	0.29	0.00
16	Ccompis:Control:d60	Sullu:Control:d45	111.00	118.25	0.94	0.81
17	Ccompis:Control:d60	Sullu:Control:d60	111.00	111.60	0.99	0.98
18	Ccompis:Control:d60	Sullu:Control:d75	111.00	102.80	1.08	0.77
19	Ccompis:Control:d60	Sullu:Stress:d45	111.00	112.17	0.99	0.97
20	Ccompis:Control:d60	Sullu:Stress:d60	111.00	189.80	0.58	0.01
21	Ccompis:Control:d60	Sullu:Stress:d75	111.00	160.00	0.69	0.09
22	Ccompis:Control:d75	Ccompis:Stress:d45	137.20	156.83	0.87	0.47
23	Ccompis:Control:d75	Ccompis:Stress:d60	137.20	186.20	0.74	0.09
24	Ccompis:Control:d75	Ccompis:Stress:d75	137.20	387.80	0.35	0.00
25	Ccompis:Control:d75	Sullu:Control:d45	137.20	118.25	1.16	0.53
26	Ccompis:Control:d75	Sullu:Control:d60	137.20	111.60	1.23	0.36
27	Ccompis:Control:d75	Sullu:Control:d75	137.20	102.80	1.33	0.22
28	Ccompis:Control:d75	Sullu:Stress:d45	137.20	112.17	1.22	0.35
29	Ccompis:Control:d75	Sullu:Stress:d60	137.20	189.80	0.72	0.07
30	Ccompis:Control:d75	Sullu:Stress:d75	137.20	160.00	0.86	0.42
31	Ccompis:Stress:d45	Ccompis:Stress:d60	156.83	186.20	0.84	0.28
32	Ccompis:Stress:d45	Ccompis:Stress:d75	156.83	387.80	0.40	0.00
33	Ccompis:Stress:d45	Sullu:Control:d45	156.83	118.25	1.33	0.18
34	Ccompis:Stress:d45	Sullu:Control:d60	156.83	111.60	1.41	0.10
35	Ccompis:Stress:d45	Sullu:Control:d75	156.83	102.80	1.53	0.05
36	Ccompis:Stress:d45	Sullu:Stress:d45	156.83	112.17	1.40	0.09
37	Ccompis:Stress:d45	Sullu:Stress:d60	156.83	189.80	0.83	0.22
38	Ccompis:Stress:d45	Sullu:Stress:d75	156.83	160.00	0.98	0.91
39	Ccompis:Stress:d60	Ccompis:Stress:d75	186.20	387.80	0.48	0.00
40	Ccompis:Stress:d60	Sullu:Control:d45	186.20	118.25	1.57	0.03
41	Ccompis:Stress:d60	Sullu:Control:d60	186.20	111.60	1.67	0.01
42	Ccompis:Stress:d60	Sullu:Control:d75	186.20	102.80	1.81	0.00
43	Ccompis:Stress:d60	Sullu:Stress:d45	186.20	112.17	1.66	0.01
44	Ccompis:Stress:d60	Sullu:Stress:d60	186.20	189.80	0.98	0.90
45	Ccompis:Stress:d60	Sullu:Stress:d75	186.20	160.00	1.16	0.35
46	Ccompis:Stress:d75	Sullu:Control:d45	387.80	118.25	3.28	0.00
47	Ccompis:Stress:d75	Sullu:Control:d60	387.80	111.60	3.47	0.00
48	Ccompis:Stress:d75	Sullu:Control:d75	387.80	102.80	3.77	0.00
49	Ccompis:Stress:d75	Sullu:Stress:d45	387.80	112.17	3.46	0.00
50	Ccompis:Stress:d75	Sullu:Stress:d60	387.80	189.80	2.04	0.00
51	Ccompis:Stress:d75	Sullu:Stress:d75	387.80	160.00	2.42	0.00
52	Sullu:Control:d45	Sullu:Control:d60	118.25	111.60	1.06	0.82
53	Sullu:Control:d45	Sullu:Control:d75	118.25	102.80	1.15	0.60
54	Sullu:Control:d45	Sullu:Stress:d45	118.25	112.17	1.05	0.83
55	Sullu:Control:d45	Sullu:Stress:d60	118.25	189.80	0.62	0.02
56	Sullu:Control:d45	Sullu:Stress:d75	118.25	160.00	0.74	0.17
57	Sullu:Control:d60	Sullu:Control:d75	111.60	102.80	1.09	0.75
58	Sullu:Control:d60	Sullu:Stress:d45	111.60	112.17	0.99	0.98
59	Sullu:Control:d60	Sullu:Stress:d60	111.60	189.80	0.59	0.01

60	Sullu:Control:d60	Sullu:Stress:d75	111.60	160.00	0.70	0.09
61	Sullu:Control:d75	Sullu:Stress:d45	102.80	112.17	0.92	0.73
62	Sullu:Control:d75	Sullu:Stress:d60	102.80	189.80	0.54	**0.00**
63	Sullu:Control:d75	Sullu:Stress:d75	102.80	160.00	0.64	0.05
64	Sullu:Stress:d45	Sullu:Stress:d60	112.17	189.80	0.59	**0.01**
65	Sullu:Stress:d45	Sullu:Stress:d75	112.17	160.00	0.70	0.08
66	Sullu:Stress:d60	Sullu:Stress:d75	189.80	160.00	1.19	0.29

ASCORBIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	24.75	28.00	0.88	0.9132
2	Ccompis:Control:d45	Ccompis:Control:d75	24.75	31.60	0.78	0.8183
3	Ccompis:Control:d45	Ccompis:Stress:d45	24.75	36.00	0.69	0.6951
4	Ccompis:Control:d45	Ccompis:Stress:d60	24.75	94.60	0.26	0.0226
5	Ccompis:Control:d45	Ccompis:Stress:d75	24.75	150.40	0.16	**0.0001**
6	Ccompis:Control:d45	Sullu:Control:d45	24.75	154.00	0.16	**0.0001**
7	Ccompis:Control:d45	Sullu:Control:d60	24.75	318.80	0.08	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	24.75	268.00	0.09	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	24.75	171.67	0.14	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	24.75	292.60	0.08	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	24.75	116.80	0.21	**0.0032**
12	Ccompis:Control:d60	Ccompis:Control:d75	28.00	31.60	0.89	0.8981
13	Ccompis:Control:d60	Ccompis:Stress:d45	28.00	36.00	0.78	0.7663
14	Ccompis:Control:d60	Ccompis:Stress:d60	28.00	94.60	0.30	0.0212
15	Ccompis:Control:d60	Ccompis:Stress:d75	28.00	150.40	0.19	**0.0001**
16	Ccompis:Control:d60	Sullu:Control:d45	28.00	154.00	0.18	**0.0001**
17	Ccompis:Control:d60	Sullu:Control:d60	28.00	318.80	0.09	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	28.00	268.00	0.10	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	28.00	171.67	0.16	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	28.00	292.60	0.10	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	28.00	116.80	0.24	**0.0026**
22	Ccompis:Control:d75	Ccompis:Stress:d45	31.60	36.00	0.88	0.8701
23	Ccompis:Control:d75	Ccompis:Stress:d60	31.60	94.60	0.33	0.0288
24	Ccompis:Control:d75	Ccompis:Stress:d75	31.60	150.40	0.21	**0.0001**
25	Ccompis:Control:d75	Sullu:Control:d45	31.60	154.00	0.21	**0.0001**
26	Ccompis:Control:d75	Sullu:Control:d60	31.60	318.80	0.10	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	31.60	268.00	0.12	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	31.60	171.67	0.18	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	31.60	292.60	0.11	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	31.60	116.80	0.27	**0.0037**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	36.00	94.60	0.38	0.0334
32	Ccompis:Stress:d45	Ccompis:Stress:d75	36.00	150.40	0.24	**0.0001**
33	Ccompis:Stress:d45	Sullu:Control:d45	36.00	154.00	0.23	**0.0001**
34	Ccompis:Stress:d45	Sullu:Control:d60	36.00	318.80	0.11	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	36.00	268.00	0.13	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	36.00	171.67	0.21	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	36.00	292.60	0.12	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	36.00	116.80	0.31	**0.0041**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	94.60	150.40	0.63	0.0516
40	Ccompis:Stress:d60	Sullu:Control:d45	94.60	154.00	0.61	0.0508
41	Ccompis:Stress:d60	Sullu:Control:d60	94.60	318.80	0.30	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	94.60	268.00	0.35	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	94.60	171.67	0.55	**0.0059**
44	Ccompis:Stress:d60	Sullu:Stress:d60	94.60	292.60	0.32	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	94.60	116.80	0.81	0.431
46	Ccompis:Stress:d75	Sullu:Control:d45	150.40	154.00	0.98	0.9039
47	Ccompis:Stress:d75	Sullu:Control:d60	150.40	318.80	0.47	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	150.40	268.00	0.56	**0.0001**
49	Ccompis:Stress:d75	Sullu:Stress:d45	150.40	171.67	0.88	0.4307
50	Ccompis:Stress:d75	Sullu:Stress:d60	150.40	292.60	0.51	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	150.40	116.80	1.29	0.2352
52	Sullu:Control:d45	Sullu:Control:d60	154.00	318.80	0.48	**0**
53	Sullu:Control:d45	Sullu:Control:d75	154.00	268.00	0.57	**0.0004**
54	Sullu:Control:d45	Sullu:Stress:d45	154.00	171.67	0.90	0.5387
55	Sullu:Control:d45	Sullu:Stress:d60	154.00	292.60	0.53	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	154.00	116.80	1.32	0.2157

57	Sullu:Control:d60	Sullu:Control:d75	318.80	268.00	1.19	0.0754
58	Sullu:Control:d60	Sullu:Stress:d45	318.80	171.67	1.86	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	318.80	292.60	1.09	0.3533
60	Sullu:Control:d60	Sullu:Stress:d75	318.80	116.80	2.73	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	268.00	171.67	1.56	**0.0008**
62	Sullu:Control:d75	Sullu:Stress:d60	268.00	292.60	0.92	0.3832
63	Sullu:Control:d75	Sullu:Stress:d75	268.00	116.80	2.29	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	171.67	292.60	0.59	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	171.67	116.80	1.47	0.0458
66	Sullu:Stress:d60	Sullu:Stress:d75	292.60	116.80	2.51	**0**

CAFFEIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	379.00	440.80	0.86	0.0425
2	Ccompis:Control:d45	Ccompis:Control:d75	379.00	588.40	0.64	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	379.00	499.67	0.76	**0.0001**
4	Ccompis:Control:d45	Ccompis:Stress:d60	379.00	807.20	0.47	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	379.00	1444.80	0.26	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	379.00	602.25	0.63	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	379.00	1086.00	0.35	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	379.00	451.60	0.84	0.018
9	Ccompis:Control:d45	Sullu:Stress:d45	379.00	600.17	0.63	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	379.00	1214.00	0.31	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	379.00	722.20	0.52	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	440.80	588.40	0.75	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	440.80	499.67	0.88	0.0327
14	Ccompis:Control:d60	Ccompis:Stress:d60	440.80	807.20	0.55	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	440.80	1444.80	0.31	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	440.80	602.25	0.73	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	440.80	1086.00	0.41	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	440.80	451.60	0.98	0.7009
19	Ccompis:Control:d60	Sullu:Stress:d45	440.80	600.17	0.73	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	440.80	1214.00	0.36	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	440.80	722.20	0.61	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	588.40	499.67	1.18	**0.0017**
23	Ccompis:Control:d75	Ccompis:Stress:d60	588.40	807.20	0.73	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	588.40	1444.80	0.41	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	588.40	602.25	0.98	0.6425
26	Ccompis:Control:d75	Sullu:Control:d60	588.40	1086.00	0.54	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	588.40	451.60	1.30	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	588.40	600.17	0.98	0.6622
29	Ccompis:Control:d75	Sullu:Stress:d60	588.40	1214.00	0.48	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	588.40	722.20	0.81	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	499.67	807.20	0.62	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	499.67	1444.80	0.35	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	499.67	602.25	0.83	**0.0008**
34	Ccompis:Stress:d45	Sullu:Control:d60	499.67	1086.00	0.46	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	499.67	451.60	1.11	0.0788
36	Ccompis:Stress:d45	Sullu:Stress:d45	499.67	600.17	0.83	**0.0003**
37	Ccompis:Stress:d45	Sullu:Stress:d60	499.67	1214.00	0.41	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	499.67	722.20	0.69	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	807.20	1444.80	0.56	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	807.20	602.25	1.34	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	807.20	1086.00	0.74	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	807.20	451.60	1.79	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	807.20	600.17	1.34	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	807.20	1214.00	0.66	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	807.20	722.20	1.12	**0.0038**
46	Ccompis:Stress:d75	Sullu:Control:d45	1444.80	602.25	2.40	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	1444.80	1086.00	1.33	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	1444.80	451.60	3.20	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	1444.80	600.17	2.41	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	1444.80	1214.00	1.19	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	1444.80	722.20	2.00	**0**
52	Sullu:Control:d45	Sullu:Control:d60	602.25	1086.00	0.55	**0**
53	Sullu:Control:d45	Sullu:Control:d75	602.25	451.60	1.33	**0**

54	Sullu:Control:d45	Sullu:Stress:d45	602.25	600.17	1.00	0.9421
55	Sullu:Control:d45	Sullu:Stress:d60	602.25	1214.00	0.50	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	602.25	722.20	0.83	**0.0002**
57	Sullu:Control:d60	Sullu:Control:d75	1086.00	451.60	2.40	**0**
58	Sullu:Control:d60	Sullu:Stress:d45	1086.00	600.17	1.81	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	1086.00	1214.00	0.89	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	1086.00	722.20	1.50	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	451.60	600.17	0.75	**0**
62	Sullu:Control:d75	Sullu:Stress:d60	451.60	1214.00	0.37	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	451.60	722.20	0.63	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	600.17	1214.00	0.49	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	600.17	722.20	0.83	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	1214.00	722.20	1.68	**0**

CITRIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	3647.00	1634.60	2.23	**0**
2	Ccompis:Control:d45	Ccompis:Control:d75	3647.00	1822.60	2.00	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	3647.00	3371.33	1.08	**0**
4	Ccompis:Control:d45	Ccompis:Stress:d60	3647.00	7832.80	0.47	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	3647.00	5350.80	0.68	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	3647.00	6321.75	0.58	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	3647.00	3894.60	0.94	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	3647.00	5487.20	0.66	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	3647.00	7516.50	0.49	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	3647.00	8109.00	0.45	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	3647.00	14828.00	0.25	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	1634.60	1822.60	0.90	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	1634.60	3371.33	0.48	**0**
14	Ccompis:Control:d60	Ccompis:Stress:d60	1634.60	7832.80	0.21	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	1634.60	5350.80	0.31	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	1634.60	6321.75	0.26	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	1634.60	3894.60	0.42	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	1634.60	5487.20	0.30	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	1634.60	7516.50	0.22	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	1634.60	8109.00	0.20	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	1634.60	14828.00	0.11	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	1822.60	3371.33	0.54	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	1822.60	7832.80	0.23	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	1822.60	5350.80	0.34	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	1822.60	6321.75	0.29	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	1822.60	3894.60	0.47	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	1822.60	5487.20	0.33	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	1822.60	7516.50	0.24	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	1822.60	8109.00	0.22	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	1822.60	14828.00	0.12	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	3371.33	7832.80	0.43	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	3371.33	5350.80	0.63	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	3371.33	6321.75	0.53	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	3371.33	3894.60	0.87	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	3371.33	5487.20	0.61	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	3371.33	7516.50	0.45	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	3371.33	8109.00	0.42	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	3371.33	14828.00	0.23	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	7832.80	5350.80	1.46	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	7832.80	6321.75	1.24	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	7832.80	3894.60	2.01	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	7832.80	5487.20	1.43	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	7832.80	7516.50	1.04	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	7832.80	8109.00	0.97	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	7832.80	14828.00	0.53	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	5350.80	6321.75	0.85	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	5350.80	3894.60	1.37	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	5350.80	5487.20	0.98	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	5350.80	7516.50	0.71	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	5350.80	8109.00	0.66	**0**

51	Ccompis:Stress:d75	Sullu:Stress:d75	5350.80	14828.00	0.36	0
52	Sullu:Control:d45	Sullu:Control:d60	6321.75	3894.60	1.62	0
53	Sullu:Control:d45	Sullu:Control:d75	6321.75	5487.20	1.15	0
54	Sullu:Control:d45	Sullu:Stress:d45	6321.75	7516.50	0.84	0
55	Sullu:Control:d45	Sullu:Stress:d60	6321.75	8109.00	0.78	0
56	Sullu:Control:d45	Sullu:Stress:d75	6321.75	14828.00	0.43	0
57	Sullu:Control:d60	Sullu:Control:d75	3894.60	5487.20	0.71	0
58	Sullu:Control:d60	Sullu:Stress:d45	3894.60	7516.50	0.52	0
59	Sullu:Control:d60	Sullu:Stress:d60	3894.60	8109.00	0.48	0
60	Sullu:Control:d60	Sullu:Stress:d75	3894.60	14828.00	0.26	0
61	Sullu:Control:d75	Sullu:Stress:d45	5487.20	7516.50	0.73	0
62	Sullu:Control:d75	Sullu:Stress:d60	5487.20	8109.00	0.68	0
63	Sullu:Control:d75	Sullu:Stress:d75	5487.20	14828.00	0.37	0
64	Sullu:Stress:d45	Sullu:Stress:d60	7516.50	8109.00	0.93	0
65	Sullu:Stress:d45	Sullu:Stress:d75	7516.50	14828.00	0.51	0
66	Sullu:Stress:d60	Sullu:Stress:d75	8109.00	14828.00	0.55	0

FRUCTOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	10983.75	12749.80	0.86	0
2	Ccompis:Control:d45	Ccompis:Control:d75	10983.75	21512.20	0.51	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	10983.75	12724.33	0.86	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	10983.75	19891.20	0.55	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	10983.75	29389.60	0.37	0
6	Ccompis:Control:d45	Sullu:Control:d45	10983.75	9119.00	1.20	0
7	Ccompis:Control:d45	Sullu:Control:d60	10983.75	9163.80	1.20	0
8	Ccompis:Control:d45	Sullu:Control:d75	10983.75	17116.80	0.64	0
9	Ccompis:Control:d45	Sullu:Stress:d45	10983.75	8822.17	1.25	0
10	Ccompis:Control:d45	Sullu:Stress:d60	10983.75	11855.60	0.93	0
11	Ccompis:Control:d45	Sullu:Stress:d75	10983.75	16109.80	0.68	0
12	Ccompis:Control:d60	Ccompis:Control:d75	12749.80	21512.20	0.59	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	12749.80	12724.33	1.00	0.3461
14	Ccompis:Control:d60	Ccompis:Stress:d60	12749.80	19891.20	0.64	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	12749.80	29389.60	0.43	0
16	Ccompis:Control:d60	Sullu:Control:d45	12749.80	9119.00	1.40	0
17	Ccompis:Control:d60	Sullu:Control:d60	12749.80	9163.80	1.39	0
18	Ccompis:Control:d60	Sullu:Control:d75	12749.80	17116.80	0.74	0
19	Ccompis:Control:d60	Sullu:Stress:d45	12749.80	8822.17	1.45	0
20	Ccompis:Control:d60	Sullu:Stress:d60	12749.80	11855.60	1.08	0
21	Ccompis:Control:d60	Sullu:Stress:d75	12749.80	16109.80	0.79	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	21512.20	12724.33	1.69	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	21512.20	19891.20	1.08	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	21512.20	29389.60	0.73	0
25	Ccompis:Control:d75	Sullu:Control:d45	21512.20	9119.00	2.36	0
26	Ccompis:Control:d75	Sullu:Control:d60	21512.20	9163.80	2.35	0
27	Ccompis:Control:d75	Sullu:Control:d75	21512.20	17116.80	1.26	0
28	Ccompis:Control:d75	Sullu:Stress:d45	21512.20	8822.17	2.44	0
29	Ccompis:Control:d75	Sullu:Stress:d60	21512.20	11855.60	1.81	0
30	Ccompis:Control:d75	Sullu:Stress:d75	21512.20	16109.80	1.34	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	12724.33	19891.20	0.64	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	12724.33	29389.60	0.43	0
33	Ccompis:Stress:d45	Sullu:Control:d45	12724.33	9119.00	1.40	0
34	Ccompis:Stress:d45	Sullu:Control:d60	12724.33	9163.80	1.39	0
35	Ccompis:Stress:d45	Sullu:Control:d75	12724.33	17116.80	0.74	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	12724.33	8822.17	1.44	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	12724.33	11855.60	1.07	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	12724.33	16109.80	0.79	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	19891.20	29389.60	0.68	0
40	Ccompis:Stress:d60	Sullu:Control:d45	19891.20	9119.00	2.18	0
41	Ccompis:Stress:d60	Sullu:Control:d60	19891.20	9163.80	2.17	0
42	Ccompis:Stress:d60	Sullu:Control:d75	19891.20	17116.80	1.16	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	19891.20	8822.17	2.25	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	19891.20	11855.60	1.68	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	19891.20	16109.80	1.23	0
46	Ccompis:Stress:d75	Sullu:Control:d45	29389.60	9119.00	3.22	0
47	Ccompis:Stress:d75	Sullu:Control:d60	29389.60	9163.80	3.21	0

48	Ccompis:Stress:d75	Sullu:Control:d75	29389.60	17116.80	1.72	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	29389.60	8822.17	3.33	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	29389.60	11855.60	2.48	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	29389.60	16109.80	1.82	0
52	Sullu:Control:d45	Sullu:Control:d60	9119.00	9163.80	1.00	0.1373
53	Sullu:Control:d45	Sullu:Control:d75	9119.00	17116.80	0.53	0
54	Sullu:Control:d45	Sullu:Stress:d45	9119.00	8822.17	1.03	0
55	Sullu:Control:d45	Sullu:Stress:d60	9119.00	11855.60	0.77	0
56	Sullu:Control:d45	Sullu:Stress:d75	9119.00	16109.80	0.57	0
57	Sullu:Control:d60	Sullu:Control:d75	9163.80	17116.80	0.54	0
58	Sullu:Control:d60	Sullu:Stress:d45	9163.80	8822.17	1.04	0
59	Sullu:Control:d60	Sullu:Stress:d60	9163.80	11855.60	0.77	0
60	Sullu:Control:d60	Sullu:Stress:d75	9163.80	16109.80	0.57	0
61	Sullu:Control:d75	Sullu:Stress:d45	17116.80	8822.17	1.94	0
62	Sullu:Control:d75	Sullu:Stress:d60	17116.80	11855.60	1.44	0
63	Sullu:Control:d75	Sullu:Stress:d75	17116.80	16109.80	1.06	0
64	Sullu:Stress:d45	Sullu:Stress:d60	8822.17	11855.60	0.74	0
65	Sullu:Stress:d45	Sullu:Stress:d75	8822.17	16109.80	0.55	0
66	Sullu:Stress:d60	Sullu:Stress:d75	11855.60	16109.80	0.74	0

FUMARIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	1122.50	1098.40	1.02	0.4203
2	Ccompis:Control:d45	Ccompis:Control:d75	1122.50	915.00	1.23	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	1122.50	584.83	1.92	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	1122.50	520.20	2.16	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	1122.50	380.80	2.95	0
6	Ccompis:Control:d45	Sullu:Control:d45	1122.50	2591.50	0.43	0
7	Ccompis:Control:d45	Sullu:Control:d60	1122.50	1048.20	1.07	0.0157
8	Ccompis:Control:d45	Sullu:Control:d75	1122.50	1225.60	0.92	0.0011
9	Ccompis:Control:d45	Sullu:Stress:d45	1122.50	2002.17	0.56	0
10	Ccompis:Control:d45	Sullu:Stress:d60	1122.50	436.60	2.57	0
11	Ccompis:Control:d45	Sullu:Stress:d75	1122.50	1520.80	0.74	0
12	Ccompis:Control:d60	Ccompis:Control:d75	1098.40	915.00	1.20	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	1098.40	584.83	1.88	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	1098.40	520.20	2.11	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	1098.40	380.80	2.88	0
16	Ccompis:Control:d60	Sullu:Control:d45	1098.40	2591.50	0.42	0
17	Ccompis:Control:d60	Sullu:Control:d60	1098.40	1048.20	1.05	0.0788
18	Ccompis:Control:d60	Sullu:Control:d75	1098.40	1225.60	0.90	0
19	Ccompis:Control:d60	Sullu:Stress:d45	1098.40	2002.17	0.55	0
20	Ccompis:Control:d60	Sullu:Stress:d60	1098.40	436.60	2.52	0
21	Ccompis:Control:d60	Sullu:Stress:d75	1098.40	1520.80	0.72	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	915.00	584.83	1.56	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	915.00	520.20	1.76	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	915.00	380.80	2.40	0
25	Ccompis:Control:d75	Sullu:Control:d45	915.00	2591.50	0.35	0
26	Ccompis:Control:d75	Sullu:Control:d60	915.00	1048.20	0.87	0
27	Ccompis:Control:d75	Sullu:Control:d75	915.00	1225.60	0.75	0
28	Ccompis:Control:d75	Sullu:Stress:d45	915.00	2002.17	0.46	0
29	Ccompis:Control:d75	Sullu:Stress:d60	915.00	436.60	2.10	0
30	Ccompis:Control:d75	Sullu:Stress:d75	915.00	1520.80	0.60	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	584.83	520.20	1.12	0.0196
32	Ccompis:Stress:d45	Ccompis:Stress:d75	584.83	380.80	1.54	0
33	Ccompis:Stress:d45	Sullu:Control:d45	584.83	2591.50	0.23	0
34	Ccompis:Stress:d45	Sullu:Control:d60	584.83	1048.20	0.56	0
35	Ccompis:Stress:d45	Sullu:Control:d75	584.83	1225.60	0.48	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	584.83	2002.17	0.29	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	584.83	436.60	1.34	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	584.83	1520.80	0.38	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	520.20	380.80	1.37	0
40	Ccompis:Stress:d60	Sullu:Control:d45	520.20	2591.50	0.20	0
41	Ccompis:Stress:d60	Sullu:Control:d60	520.20	1048.20	0.50	0
42	Ccompis:Stress:d60	Sullu:Control:d75	520.20	1225.60	0.42	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	520.20	2002.17	0.26	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	520.20	436.60	1.19	0.0044

45	Ccompis:Stress:d60	Sullu:Stress:d75	520.20	1520.80	0.34	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	380.80	2591.50	0.15	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	380.80	1048.20	0.36	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	380.80	1225.60	0.31	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	380.80	2002.17	0.19	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	380.80	436.60	0.87	0.0516
51	Ccompis:Stress:d75	Sullu:Stress:d75	380.80	1520.80	0.25	**0**
52	Sullu:Control:d45	Sullu:Control:d60	2591.50	1048.20	2.47	**0**
53	Sullu:Control:d45	Sullu:Control:d75	2591.50	1225.60	2.11	**0**
54	Sullu:Control:d45	Sullu:Stress:d45	2591.50	2002.17	1.29	**0**
55	Sullu:Control:d45	Sullu:Stress:d60	2591.50	436.60	5.94	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	2591.50	1520.80	1.70	**0**
57	Sullu:Control:d60	Sullu:Control:d75	1048.20	1225.60	0.86	**0**
58	Sullu:Control:d60	Sullu:Stress:d45	1048.20	2002.17	0.52	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	1048.20	436.60	2.40	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	1048.20	1520.80	0.69	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	1225.60	2002.17	0.61	**0**
62	Sullu:Control:d75	Sullu:Stress:d60	1225.60	436.60	2.81	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	1225.60	1520.80	0.81	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	2002.17	436.60	4.59	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	2002.17	1520.80	1.32	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	436.60	1520.80	0.29	**0**

GABA

1	Ccompis:Control:d45	Ccompis:Control:d60	1319.75	1571.40	0.84	**0**
2	Ccompis:Control:d45	Ccompis:Control:d75	1319.75	2668.40	0.49	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	1319.75	2167.50	0.61	**0**
4	Ccompis:Control:d45	Ccompis:Stress:d60	1319.75	3092.60	0.43	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	1319.75	3151.20	0.42	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	1319.75	2328.75	0.57	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	1319.75	2067.60	0.64	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	1319.75	1893.00	0.70	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	1319.75	2453.17	0.54	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	1319.75	2850.20	0.46	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	1319.75	2918.00	0.45	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	1571.40	2668.40	0.59	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	1571.40	2167.50	0.72	**0**
14	Ccompis:Control:d60	Ccompis:Stress:d60	1571.40	3092.60	0.51	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	1571.40	3151.20	0.50	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	1571.40	2328.75	0.67	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	1571.40	2067.60	0.76	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	1571.40	1893.00	0.83	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	1571.40	2453.17	0.64	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	1571.40	2850.20	0.55	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	1571.40	2918.00	0.54	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	2668.40	2167.50	1.23	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	2668.40	3092.60	0.86	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	2668.40	3151.20	0.85	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	2668.40	2328.75	1.15	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	2668.40	2067.60	1.29	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	2668.40	1893.00	1.41	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	2668.40	2453.17	1.09	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	2668.40	2850.20	0.94	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	2668.40	2918.00	0.91	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	2167.50	3092.60	0.70	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	2167.50	3151.20	0.69	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	2167.50	2328.75	0.93	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	2167.50	2067.60	1.05	**0.0005**
35	Ccompis:Stress:d45	Sullu:Control:d75	2167.50	1893.00	1.15	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	2167.50	2453.17	0.88	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	2167.50	2850.20	0.76	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	2167.50	2918.00	0.74	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	3092.60	3151.20	0.98	0.0413
40	Ccompis:Stress:d60	Sullu:Control:d45	3092.60	2328.75	1.33	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	3092.60	2067.60	1.50	**0**

42	Ccompis:Stress:d60	Sullu:Control:d75	3092.60	1893.00	1.63	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	3092.60	2453.17	1.26	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	3092.60	2850.20	1.09	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	3092.60	2918.00	1.06	0
46	Ccompis:Stress:d75	Sullu:Control:d45	3151.20	2328.75	1.35	0
47	Ccompis:Stress:d75	Sullu:Control:d60	3151.20	2067.60	1.52	0
48	Ccompis:Stress:d75	Sullu:Control:d75	3151.20	1893.00	1.66	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	3151.20	2453.17	1.28	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	3151.20	2850.20	1.11	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	3151.20	2918.00	1.08	0
52	Sullu:Control:d45	Sullu:Control:d60	2328.75	2067.60	1.13	0
53	Sullu:Control:d45	Sullu:Control:d75	2328.75	1893.00	1.23	0
54	Sullu:Control:d45	Sullu:Stress:d45	2328.75	2453.17	0.95	0.0001
55	Sullu:Control:d45	Sullu:Stress:d60	2328.75	2850.20	0.82	0
56	Sullu:Control:d45	Sullu:Stress:d75	2328.75	2918.00	0.80	0
57	Sullu:Control:d60	Sullu:Control:d75	2067.60	1893.00	1.09	0
58	Sullu:Control:d60	Sullu:Stress:d45	2067.60	2453.17	0.84	0
59	Sullu:Control:d60	Sullu:Stress:d60	2067.60	2850.20	0.73	0
60	Sullu:Control:d60	Sullu:Stress:d75	2067.60	2918.00	0.71	0
61	Sullu:Control:d75	Sullu:Stress:d45	1893.00	2453.17	0.77	0
62	Sullu:Control:d75	Sullu:Stress:d60	1893.00	2850.20	0.66	0
63	Sullu:Control:d75	Sullu:Stress:d75	1893.00	2918.00	0.65	0
64	Sullu:Stress:d45	Sullu:Stress:d60	2453.17	2850.20	0.86	0
65	Sullu:Stress:d45	Sullu:Stress:d75	2453.17	2918.00	0.84	0
66	Sullu:Stress:d60	Sullu:Stress:d75	2850.20	2918.00	0.98	0.0191

GALACTOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	2118.00	2514.40	0.84	0
2	Ccompis:Control:d45	Ccompis:Control:d75	2118.00	4311.00	0.49	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	2118.00	2762.50	0.77	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	2118.00	4176.80	0.51	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	2118.00	7099.60	0.30	0
6	Ccompis:Control:d45	Sullu:Control:d45	2118.00	2714.75	0.78	0
7	Ccompis:Control:d45	Sullu:Control:d60	2118.00	2293.00	0.92	0
8	Ccompis:Control:d45	Sullu:Control:d75	2118.00	8263.40	0.26	0
9	Ccompis:Control:d45	Sullu:Stress:d45	2118.00	5333.17	0.40	0
10	Ccompis:Control:d45	Sullu:Stress:d60	2118.00	6520.00	0.32	0
11	Ccompis:Control:d45	Sullu:Stress:d75	2118.00	5986.40	0.35	0
12	Ccompis:Control:d60	Ccompis:Control:d75	2514.40	4311.00	0.58	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	2514.40	2762.50	0.91	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	2514.40	4176.80	0.60	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	2514.40	7099.60	0.35	0
16	Ccompis:Control:d60	Sullu:Control:d45	2514.40	2714.75	0.93	0
17	Ccompis:Control:d60	Sullu:Control:d60	2514.40	2293.00	1.10	0
18	Ccompis:Control:d60	Sullu:Control:d75	2514.40	8263.40	0.30	0
19	Ccompis:Control:d60	Sullu:Stress:d45	2514.40	5333.17	0.47	0
20	Ccompis:Control:d60	Sullu:Stress:d60	2514.40	6520.00	0.39	0
21	Ccompis:Control:d60	Sullu:Stress:d75	2514.40	5986.40	0.42	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	4311.00	2762.50	1.56	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	4311.00	4176.80	1.03	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	4311.00	7099.60	0.61	0
25	Ccompis:Control:d75	Sullu:Control:d45	4311.00	2714.75	1.59	0
26	Ccompis:Control:d75	Sullu:Control:d60	4311.00	2293.00	1.88	0
27	Ccompis:Control:d75	Sullu:Control:d75	4311.00	8263.40	0.52	0
28	Ccompis:Control:d75	Sullu:Stress:d45	4311.00	5333.17	0.81	0
29	Ccompis:Control:d75	Sullu:Stress:d60	4311.00	6520.00	0.66	0
30	Ccompis:Control:d75	Sullu:Stress:d75	4311.00	5986.40	0.72	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	2762.50	4176.80	0.66	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	2762.50	7099.60	0.39	0
33	Ccompis:Stress:d45	Sullu:Control:d45	2762.50	2714.75	1.02	0.1007
34	Ccompis:Stress:d45	Sullu:Control:d60	2762.50	2293.00	1.20	0
35	Ccompis:Stress:d45	Sullu:Control:d75	2762.50	8263.40	0.33	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	2762.50	5333.17	0.52	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	2762.50	6520.00	0.42	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	2762.50	5986.40	0.46	0

39	Ccompis:Stress:d60	Ccompis:Stress:d75	4176.80	7099.60	0.59	0
40	Ccompis:Stress:d60	Sullu:Control:d45	4176.80	2714.75	1.54	0
41	Ccompis:Stress:d60	Sullu:Control:d60	4176.80	2293.00	1.82	0
42	Ccompis:Stress:d60	Sullu:Control:d75	4176.80	8263.40	0.51	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	4176.80	5333.17	0.78	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	4176.80	6520.00	0.64	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	4176.80	5986.40	0.70	0
46	Ccompis:Stress:d75	Sullu:Control:d45	7099.60	2714.75	2.62	0
47	Ccompis:Stress:d75	Sullu:Control:d60	7099.60	2293.00	3.10	0
48	Ccompis:Stress:d75	Sullu:Control:d75	7099.60	8263.40	0.86	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	7099.60	5333.17	1.33	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	7099.60	6520.00	1.09	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	7099.60	5986.40	1.19	0
52	Sullu:Control:d45	Sullu:Control:d60	2714.75	2293.00	1.18	0
53	Sullu:Control:d45	Sullu:Control:d75	2714.75	8263.40	0.33	0
54	Sullu:Control:d45	Sullu:Stress:d45	2714.75	5333.17	0.51	0
55	Sullu:Control:d45	Sullu:Stress:d60	2714.75	6520.00	0.42	0
56	Sullu:Control:d45	Sullu:Stress:d75	2714.75	5986.40	0.45	0
57	Sullu:Control:d60	Sullu:Control:d75	2293.00	8263.40	0.28	0
58	Sullu:Control:d60	Sullu:Stress:d45	2293.00	5333.17	0.43	0
59	Sullu:Control:d60	Sullu:Stress:d60	2293.00	6520.00	0.35	0
60	Sullu:Control:d60	Sullu:Stress:d75	2293.00	5986.40	0.38	0
61	Sullu:Control:d75	Sullu:Stress:d45	8263.40	5333.17	1.55	0
62	Sullu:Control:d75	Sullu:Stress:d60	8263.40	6520.00	1.27	0
63	Sullu:Control:d75	Sullu:Stress:d75	8263.40	5986.40	1.38	0
64	Sullu:Stress:d45	Sullu:Stress:d60	5333.17	6520.00	0.82	0
65	Sullu:Stress:d45	Sullu:Stress:d75	5333.17	5986.40	0.89	0
66	Sullu:Stress:d60	Sullu:Stress:d75	6520.00	5986.40	1.09	0

GLUCOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	8803.75	11846.80	0.74	0
2	Ccompis:Control:d45	Ccompis:Control:d75	8803.75	21229.00	0.41	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	8803.75	11691.33	0.75	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	8803.75	12812.20	0.69	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	8803.75	19162.80	0.46	0
6	Ccompis:Control:d45	Sullu:Control:d45	8803.75	12245.50	0.72	0
7	Ccompis:Control:d45	Sullu:Control:d60	8803.75	11267.40	0.78	0
8	Ccompis:Control:d45	Sullu:Control:d75	8803.75	12927.80	0.68	0
9	Ccompis:Control:d45	Sullu:Stress:d45	8803.75	13013.67	0.68	0
10	Ccompis:Control:d45	Sullu:Stress:d60	8803.75	15245.60	0.58	0
11	Ccompis:Control:d45	Sullu:Stress:d75	8803.75	17804.80	0.49	0
12	Ccompis:Control:d60	Ccompis:Control:d75	11846.80	21229.00	0.56	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	11846.80	11691.33	1.01	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	11846.80	12812.20	0.92	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	11846.80	19162.80	0.62	0
16	Ccompis:Control:d60	Sullu:Control:d45	11846.80	12245.50	0.97	0
17	Ccompis:Control:d60	Sullu:Control:d60	11846.80	11267.40	1.05	0
18	Ccompis:Control:d60	Sullu:Control:d75	11846.80	12927.80	0.92	0
19	Ccompis:Control:d60	Sullu:Stress:d45	11846.80	13013.67	0.91	0
20	Ccompis:Control:d60	Sullu:Stress:d60	11846.80	15245.60	0.78	0
21	Ccompis:Control:d60	Sullu:Stress:d75	11846.80	17804.80	0.67	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	21229.00	11691.33	1.82	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	21229.00	12812.20	1.66	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	21229.00	19162.80	1.11	0
25	Ccompis:Control:d75	Sullu:Control:d45	21229.00	12245.50	1.73	0
26	Ccompis:Control:d75	Sullu:Control:d60	21229.00	11267.40	1.88	0
27	Ccompis:Control:d75	Sullu:Control:d75	21229.00	12927.80	1.64	0
28	Ccompis:Control:d75	Sullu:Stress:d45	21229.00	13013.67	1.63	0
29	Ccompis:Control:d75	Sullu:Stress:d60	21229.00	15245.60	1.39	0
30	Ccompis:Control:d75	Sullu:Stress:d75	21229.00	17804.80	1.19	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	11691.33	12812.20	0.91	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	11691.33	19162.80	0.61	0
33	Ccompis:Stress:d45	Sullu:Control:d45	11691.33	12245.50	0.95	0
34	Ccompis:Stress:d45	Sullu:Control:d60	11691.33	11267.40	1.04	0
35	Ccompis:Stress:d45	Sullu:Control:d75	11691.33	12927.80	0.90	0

36	Ccompis:Stress:d45	Sullu:Stress:d45	11691.33	13013.67	0.90	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	11691.33	15245.60	0.77	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	11691.33	17804.80	0.66	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	12812.20	19162.80	0.67	0
40	Ccompis:Stress:d60	Sullu:Control:d45	12812.20	12245.50	1.05	0
41	Ccompis:Stress:d60	Sullu:Control:d60	12812.20	11267.40	1.14	0
42	Ccompis:Stress:d60	Sullu:Control:d75	12812.20	12927.80	0.99	0.0001
43	Ccompis:Stress:d60	Sullu:Stress:d45	12812.20	13013.67	0.98	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	12812.20	15245.60	0.84	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	12812.20	17804.80	0.72	0
46	Ccompis:Stress:d75	Sullu:Control:d45	19162.80	12245.50	1.56	0
47	Ccompis:Stress:d75	Sullu:Control:d60	19162.80	11267.40	1.70	0
48	Ccompis:Stress:d75	Sullu:Control:d75	19162.80	12927.80	1.48	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	19162.80	13013.67	1.47	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	19162.80	15245.60	1.26	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	19162.80	17804.80	1.08	0
52	Sullu:Control:d45	Sullu:Control:d60	12245.50	11267.40	1.09	0
53	Sullu:Control:d45	Sullu:Control:d75	12245.50	12927.80	0.95	0
54	Sullu:Control:d45	Sullu:Stress:d45	12245.50	13013.67	0.94	0
55	Sullu:Control:d45	Sullu:Stress:d60	12245.50	15245.60	0.80	0
56	Sullu:Control:d45	Sullu:Stress:d75	12245.50	17804.80	0.69	0
57	Sullu:Control:d60	Sullu:Control:d75	11267.40	12927.80	0.87	0
58	Sullu:Control:d60	Sullu:Stress:d45	11267.40	13013.67	0.87	0
59	Sullu:Control:d60	Sullu:Stress:d60	11267.40	15245.60	0.74	0
60	Sullu:Control:d60	Sullu:Stress:d75	11267.40	17804.80	0.63	0
61	Sullu:Control:d75	Sullu:Stress:d45	12927.80	13013.67	0.99	0.0024
62	Sullu:Control:d75	Sullu:Stress:d60	12927.80	15245.60	0.85	0
63	Sullu:Control:d75	Sullu:Stress:d75	12927.80	17804.80	0.73	0
64	Sullu:Stress:d45	Sullu:Stress:d60	13013.67	15245.60	0.85	0
65	Sullu:Stress:d45	Sullu:Stress:d75	13013.67	17804.80	0.73	0
66	Sullu:Stress:d60	Sullu:Stress:d75	15245.60	17804.80	0.86	0

GLUCOSE 6 P

1	Ccompis:Control:d45	Ccompis:Control:d60	64.00	135.80	0.47	0.0193
2	Ccompis:Control:d45	Ccompis:Control:d75	64.00	351.80	0.18	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	64.00	102.17	0.63	0.1873
4	Ccompis:Control:d45	Ccompis:Stress:d60	64.00	296.60	0.22	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	64.00	312.60	0.20	0
6	Ccompis:Control:d45	Sullu:Control:d45	64.00	406.00	0.16	0
7	Ccompis:Control:d45	Sullu:Control:d60	64.00	384.40	0.17	0
8	Ccompis:Control:d45	Sullu:Control:d75	64.00	223.60	0.29	0
9	Ccompis:Control:d45	Sullu:Stress:d45	64.00	329.33	0.19	0
10	Ccompis:Control:d45	Sullu:Stress:d60	64.00	308.20	0.21	0
11	Ccompis:Control:d45	Sullu:Stress:d75	64.00	314.60	0.20	0
12	Ccompis:Control:d60	Ccompis:Control:d75	135.80	351.80	0.39	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	135.80	102.17	1.33	0.2149
14	Ccompis:Control:d60	Ccompis:Stress:d60	135.80	296.60	0.46	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	135.80	312.60	0.43	0
16	Ccompis:Control:d60	Sullu:Control:d45	135.80	406.00	0.33	0
17	Ccompis:Control:d60	Sullu:Control:d60	135.80	384.40	0.35	0
18	Ccompis:Control:d60	Sullu:Control:d75	135.80	223.60	0.61	0.0029
19	Ccompis:Control:d60	Sullu:Stress:d45	135.80	329.33	0.41	0
20	Ccompis:Control:d60	Sullu:Stress:d60	135.80	308.20	0.44	0
21	Ccompis:Control:d60	Sullu:Stress:d75	135.80	314.60	0.43	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	351.80	102.17	3.44	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	351.80	296.60	1.19	0.0541
24	Ccompis:Control:d75	Ccompis:Stress:d75	351.80	312.60	1.13	0.1672
25	Ccompis:Control:d75	Sullu:Control:d45	351.80	406.00	0.87	0.0738
26	Ccompis:Control:d75	Sullu:Control:d60	351.80	384.40	0.92	0.2493
27	Ccompis:Control:d75	Sullu:Control:d75	351.80	223.60	1.57	0
28	Ccompis:Control:d75	Sullu:Stress:d45	351.80	329.33	1.07	0.4054
29	Ccompis:Control:d75	Sullu:Stress:d60	351.80	308.20	1.14	0.1254
30	Ccompis:Control:d75	Sullu:Stress:d75	351.80	314.60	1.12	0.1895
31	Ccompis:Stress:d45	Ccompis:Stress:d60	102.17	296.60	0.34	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	102.17	312.60	0.33	0

33	Ccompis:Stress:d45	Sullu:Control:d45	102.17	406.00	0.25	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	102.17	384.40	0.27	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	102.17	223.60	0.46	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	102.17	329.33	0.31	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	102.17	308.20	0.33	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	102.17	314.60	0.32	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	296.60	312.60	0.95	0.5697
40	Ccompis:Stress:d60	Sullu:Control:d45	296.60	406.00	0.73	**0.0006**
41	Ccompis:Stress:d60	Sullu:Control:d60	296.60	384.40	0.77	**0.0029**
42	Ccompis:Stress:d60	Sullu:Control:d75	296.60	223.60	1.33	0.012
43	Ccompis:Stress:d60	Sullu:Stress:d45	296.60	329.33	0.90	0.2273
44	Ccompis:Stress:d60	Sullu:Stress:d60	296.60	308.20	0.96	0.68
45	Ccompis:Stress:d60	Sullu:Stress:d75	296.60	314.60	0.94	0.5227
46	Ccompis:Stress:d75	Sullu:Control:d45	312.60	406.00	0.77	**0.0028**
47	Ccompis:Stress:d75	Sullu:Control:d60	312.60	384.40	0.81	0.0134
48	Ccompis:Stress:d75	Sullu:Control:d75	312.60	223.60	1.40	**0.0026**
49	Ccompis:Stress:d75	Sullu:Stress:d45	312.60	329.33	0.95	0.5348
50	Ccompis:Stress:d75	Sullu:Stress:d60	312.60	308.20	1.01	0.8756
51	Ccompis:Stress:d75	Sullu:Stress:d75	312.60	314.60	0.99	0.9433
52	Sullu:Control:d45	Sullu:Control:d60	406.00	384.40	1.06	0.4698
53	Sullu:Control:d45	Sullu:Control:d75	406.00	223.60	1.82	**0**
54	Sullu:Control:d45	Sullu:Stress:d45	406.00	329.33	1.23	**0.0099**
55	Sullu:Control:d45	Sullu:Stress:d60	406.00	308.20	1.32	**0.0018**
56	Sullu:Control:d45	Sullu:Stress:d75	406.00	314.60	1.29	**0.0034**
57	Sullu:Control:d60	Sullu:Control:d75	384.40	223.60	1.72	**0**
58	Sullu:Control:d60	Sullu:Stress:d45	384.40	329.33	1.17	0.0451
59	Sullu:Control:d60	Sullu:Stress:d60	384.40	308.20	1.25	**0.0089**
60	Sullu:Control:d60	Sullu:Stress:d75	384.40	314.60	1.22	0.016
61	Sullu:Control:d75	Sullu:Stress:d45	223.60	329.33	0.68	**0.0003**
62	Sullu:Control:d75	Sullu:Stress:d60	223.60	308.20	0.73	**0.004**
63	Sullu:Control:d75	Sullu:Stress:d75	223.60	314.60	0.71	**0.0021**
64	Sullu:Stress:d45	Sullu:Stress:d60	329.33	308.20	1.07	0.4336
65	Sullu:Stress:d45	Sullu:Stress:d75	329.33	314.60	1.05	0.5845
66	Sullu:Stress:d60	Sullu:Stress:d75	308.20	314.60	0.98	0.8199

GLYCINE

1	Ccompis:Control:d45	Ccompis:Control:d60	44.75	56.00	0.80	0.706
2	Ccompis:Control:d45	Ccompis:Control:d75	44.75	267.40	0.17	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	44.75	149.33	0.30	**0.0006**
4	Ccompis:Control:d45	Ccompis:Stress:d60	44.75	450.20	0.10	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	44.75	238.00	0.19	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	44.75	191.25	0.23	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	44.75	195.00	0.23	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	44.75	215.20	0.21	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	44.75	200.67	0.22	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	44.75	328.60	0.14	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	44.75	345.40	0.13	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	56.00	267.40	0.21	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	56.00	149.33	0.38	**0.0011**
14	Ccompis:Control:d60	Ccompis:Stress:d60	56.00	450.20	0.12	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	56.00	238.00	0.24	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	56.00	191.25	0.29	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	56.00	195.00	0.29	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	56.00	215.20	0.26	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	56.00	200.67	0.28	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	56.00	328.60	0.17	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	56.00	345.40	0.16	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	267.40	149.33	1.79	**0.0001**
23	Ccompis:Control:d75	Ccompis:Stress:d60	267.40	450.20	0.59	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	267.40	238.00	1.12	0.2982
25	Ccompis:Control:d75	Sullu:Control:d45	267.40	191.25	1.40	0.0134
26	Ccompis:Control:d75	Sullu:Control:d60	267.40	195.00	1.37	0.0127
27	Ccompis:Control:d75	Sullu:Control:d75	267.40	215.20	1.24	0.068
28	Ccompis:Control:d75	Sullu:Stress:d45	267.40	200.67	1.33	0.0161
29	Ccompis:Control:d75	Sullu:Stress:d60	267.40	328.60	0.81	0.0335

30	Ccompis:Control:d75	Sullu:Stress:d75	267.40	345.40	0.77	**0.0075**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	149.33	450.20	0.33	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	149.33	238.00	0.63	**0.0018**
33	Ccompis:Stress:d45	Sullu:Control:d45	149.33	191.25	0.78	0.1483
34	Ccompis:Stress:d45	Sullu:Control:d60	149.33	195.00	0.77	0.0944
35	Ccompis:Stress:d45	Sullu:Control:d75	149.33	215.20	0.69	0.0175
36	Ccompis:Stress:d45	Sullu:Stress:d45	149.33	200.67	0.74	0.0499
37	Ccompis:Stress:d45	Sullu:Stress:d60	149.33	328.60	0.45	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	149.33	345.40	0.43	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	450.20	238.00	1.89	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	450.20	191.25	2.35	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	450.20	195.00	2.31	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	450.20	215.20	2.09	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	450.20	200.67	2.24	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	450.20	328.60	1.37	**0.0001**
45	Ccompis:Stress:d60	Sullu:Stress:d75	450.20	345.40	1.30	**0.0005**
46	Ccompis:Stress:d75	Sullu:Control:d45	238.00	191.25	1.24	0.1214
47	Ccompis:Stress:d75	Sullu:Control:d60	238.00	195.00	1.22	0.1305
48	Ccompis:Stress:d75	Sullu:Control:d75	238.00	215.20	1.11	0.4187
49	Ccompis:Stress:d75	Sullu:Stress:d45	238.00	200.67	1.19	0.1694
50	Ccompis:Stress:d75	Sullu:Stress:d60	238.00	328.60	0.72	**0.0022**
51	Ccompis:Stress:d75	Sullu:Stress:d75	238.00	345.40	0.69	**0.0004**
52	Sullu:Control:d45	Sullu:Control:d60	191.25	195.00	0.98	0.8999
53	Sullu:Control:d45	Sullu:Control:d75	191.25	215.20	0.89	0.4232
54	Sullu:Control:d45	Sullu:Stress:d45	191.25	200.67	0.95	0.7428
55	Sullu:Control:d45	Sullu:Stress:d60	191.25	328.60	0.58	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	191.25	345.40	0.55	**0**
57	Sullu:Control:d60	Sullu:Control:d75	195.00	215.20	0.91	0.4734
58	Sullu:Control:d60	Sullu:Stress:d45	195.00	200.67	0.97	0.8332
59	Sullu:Control:d60	Sullu:Stress:d60	195.00	328.60	0.59	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	195.00	345.40	0.56	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	215.20	200.67	1.07	0.5896
62	Sullu:Control:d75	Sullu:Stress:d60	215.20	328.60	0.65	**0.0002**
63	Sullu:Control:d75	Sullu:Stress:d75	215.20	345.40	0.62	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	200.67	328.60	0.61	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	200.67	345.40	0.58	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	328.60	345.40	0.95	0.5507

MALIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	19336.00	35029.80	0.55	**0**
2	Ccompis:Control:d45	Ccompis:Control:d75	19336.00	34434.60	0.56	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	19336.00	10838.83	1.78	**0**
4	Ccompis:Control:d45	Ccompis:Stress:d60	19336.00	21326.40	0.91	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	19336.00	28490.20	0.68	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	19336.00	17636.00	1.10	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	19336.00	18793.40	1.03	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	19336.00	21754.80	0.89	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	19336.00	19819.33	0.98	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	19336.00	25365.00	0.76	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	19336.00	21327.80	0.91	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	35029.80	34434.60	1.02	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	35029.80	10838.83	3.23	**0**
14	Ccompis:Control:d60	Ccompis:Stress:d60	35029.80	21326.40	1.64	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	35029.80	28490.20	1.23	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	35029.80	17636.00	1.99	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	35029.80	18793.40	1.86	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	35029.80	21754.80	1.61	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	35029.80	19819.33	1.77	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	35029.80	25365.00	1.38	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	35029.80	21327.80	1.64	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	34434.60	10838.83	3.18	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	34434.60	21326.40	1.61	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	34434.60	28490.20	1.21	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	34434.60	17636.00	1.95	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	34434.60	18793.40	1.83	**0**

27	Ccompis:Control:d75	Sullu:Control:d75	34434.60	21754.80	1.58	0
28	Ccompis:Control:d75	Sullu:Stress:d45	34434.60	19819.33	1.74	0
29	Ccompis:Control:d75	Sullu:Stress:d60	34434.60	25365.00	1.36	0
30	Ccompis:Control:d75	Sullu:Stress:d75	34434.60	21327.80	1.61	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	10838.83	21326.40	0.51	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	10838.83	28490.20	0.38	0
33	Ccompis:Stress:d45	Sullu:Control:d45	10838.83	17636.00	0.61	0
34	Ccompis:Stress:d45	Sullu:Control:d60	10838.83	18793.40	0.58	0
35	Ccompis:Stress:d45	Sullu:Control:d75	10838.83	21754.80	0.50	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	10838.83	19819.33	0.55	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	10838.83	25365.00	0.43	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	10838.83	21327.80	0.51	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	21326.40	28490.20	0.75	0
40	Ccompis:Stress:d60	Sullu:Control:d45	21326.40	17636.00	1.21	0
41	Ccompis:Stress:d60	Sullu:Control:d60	21326.40	18793.40	1.13	0
42	Ccompis:Stress:d60	Sullu:Control:d75	21326.40	21754.80	0.98	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	21326.40	19819.33	1.08	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	21326.40	25365.00	0.84	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	21326.40	21327.80	1.00	0.9603
46	Ccompis:Stress:d75	Sullu:Control:d45	28490.20	17636.00	1.62	0
47	Ccompis:Stress:d75	Sullu:Control:d60	28490.20	18793.40	1.52	0
48	Ccompis:Stress:d75	Sullu:Control:d75	28490.20	21754.80	1.31	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	28490.20	19819.33	1.44	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	28490.20	25365.00	1.12	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	28490.20	21327.80	1.34	0
52	Sullu:Control:d45	Sullu:Control:d60	17636.00	18793.40	0.94	0
53	Sullu:Control:d45	Sullu:Control:d75	17636.00	21754.80	0.81	0
54	Sullu:Control:d45	Sullu:Stress:d45	17636.00	19819.33	0.89	0
55	Sullu:Control:d45	Sullu:Stress:d60	17636.00	25365.00	0.70	0
56	Sullu:Control:d45	Sullu:Stress:d75	17636.00	21327.80	0.83	0
57	Sullu:Control:d60	Sullu:Control:d75	18793.40	21754.80	0.86	0
58	Sullu:Control:d60	Sullu:Stress:d45	18793.40	19819.33	0.95	0
59	Sullu:Control:d60	Sullu:Stress:d60	18793.40	25365.00	0.74	0
60	Sullu:Control:d60	Sullu:Stress:d75	18793.40	21327.80	0.88	0
61	Sullu:Control:d75	Sullu:Stress:d45	21754.80	19819.33	1.10	0
62	Sullu:Control:d75	Sullu:Stress:d60	21754.80	25365.00	0.86	0
63	Sullu:Control:d75	Sullu:Stress:d75	21754.80	21327.80	1.02	0
64	Sullu:Stress:d45	Sullu:Stress:d60	19819.33	25365.00	0.78	0
65	Sullu:Stress:d45	Sullu:Stress:d75	19819.33	21327.80	0.93	0
66	Sullu:Stress:d60	Sullu:Stress:d75	25365.00	21327.80	1.19	0

MALONIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	8978.50	8500.80	1.06	0
2	Ccompis:Control:d45	Ccompis:Control:d75	8978.50	22396.00	0.40	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	8978.50	11854.67	0.76	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	8978.50	11959.80	0.75	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	8978.50	10980.40	0.82	0
6	Ccompis:Control:d45	Sullu:Control:d45	8978.50	12.75	704.20	0
7	Ccompis:Control:d45	Sullu:Control:d60	8978.50	18.40	487.96	0
8	Ccompis:Control:d45	Sullu:Control:d75	8978.50	13.80	650.62	0
9	Ccompis:Control:d45	Sullu:Stress:d45	8978.50	18.67	480.99	0
10	Ccompis:Control:d45	Sullu:Stress:d60	8978.50	34.20	262.53	0
11	Ccompis:Control:d45	Sullu:Stress:d75	8978.50	28.80	311.75	0
12	Ccompis:Control:d60	Ccompis:Control:d75	8500.80	22396.00	0.38	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	8500.80	11854.67	0.72	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	8500.80	11959.80	0.71	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	8500.80	10980.40	0.77	0
16	Ccompis:Control:d60	Sullu:Control:d45	8500.80	12.75	666.73	0
17	Ccompis:Control:d60	Sullu:Control:d60	8500.80	18.40	462.00	0
18	Ccompis:Control:d60	Sullu:Control:d75	8500.80	13.80	616.00	0
19	Ccompis:Control:d60	Sullu:Stress:d45	8500.80	18.67	455.40	0
20	Ccompis:Control:d60	Sullu:Stress:d60	8500.80	34.20	248.56	0
21	Ccompis:Control:d60	Sullu:Stress:d75	8500.80	28.80	295.17	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	22396.00	11854.67	1.89	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	22396.00	11959.80	1.87	0

24	Ccompis:Control:d75	Ccompis:Stress:d75	22396.00	10980.40	2.04	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	22396.00	12.75	1756.55	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	22396.00	18.40	1217.17	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	22396.00	13.80	1622.90	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	22396.00	18.67	1199.79	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	22396.00	34.20	654.85	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	22396.00	28.80	777.64	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	11854.67	11959.80	0.99	**0.0003**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	11854.67	10980.40	1.08	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	11854.67	12.75	929.78	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	11854.67	18.40	644.28	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	11854.67	13.80	859.03	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	11854.67	18.67	635.07	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	11854.67	34.20	346.63	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	11854.67	28.80	411.62	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	11959.80	10980.40	1.09	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	11959.80	12.75	938.02	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	11959.80	18.40	649.99	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	11959.80	13.80	866.65	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	11959.80	18.67	640.70	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	11959.80	34.20	349.70	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	11959.80	28.80	415.27	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	10980.40	12.75	861.21	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	10980.40	18.40	596.76	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	10980.40	13.80	795.68	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	10980.40	18.67	588.24	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	10980.40	34.20	321.06	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	10980.40	28.80	381.26	**0**
52	Sullu:Control:d45	Sullu:Control:d60	12.75	18.40	0.69	0.8497
53	Sullu:Control:d45	Sullu:Control:d75	12.75	13.80	0.92	0.9719
54	Sullu:Control:d45	Sullu:Stress:d45	12.75	18.67	0.68	0.8366
55	Sullu:Control:d45	Sullu:Stress:d60	12.75	34.20	0.37	0.4729
56	Sullu:Control:d45	Sullu:Stress:d75	12.75	28.80	0.44	0.5908
57	Sullu:Control:d60	Sullu:Control:d75	18.40	13.80	1.33	0.87
58	Sullu:Control:d60	Sullu:Stress:d45	18.40	18.67	0.99	0.9921
59	Sullu:Control:d60	Sullu:Stress:d60	18.40	34.20	0.54	0.5745
60	Sullu:Control:d60	Sullu:Stress:d75	18.40	28.80	0.64	0.7115
61	Sullu:Control:d75	Sullu:Stress:d45	13.80	18.67	0.74	0.8565
62	Sullu:Control:d75	Sullu:Stress:d60	13.80	34.20	0.40	0.4691
63	Sullu:Control:d75	Sullu:Stress:d75	13.80	28.80	0.48	0.594
64	Sullu:Stress:d45	Sullu:Stress:d60	18.67	34.20	0.55	0.5644
65	Sullu:Stress:d45	Sullu:Stress:d75	18.67	28.80	0.65	0.7066
66	Sullu:Stress:d60	Sullu:Stress:d75	34.20	28.80	1.19	0.8476

MALTOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	344.75	326.00	1.06	0.5301
2	Ccompis:Control:d45	Ccompis:Control:d75	344.75	549.20	0.63	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	344.75	396.33	0.87	0.0769
4	Ccompis:Control:d45	Ccompis:Stress:d60	344.75	674.00	0.51	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	344.75	650.80	0.53	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	344.75	129.50	2.66	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	344.75	369.40	0.93	0.4099
8	Ccompis:Control:d45	Sullu:Control:d75	344.75	331.40	1.04	0.6545
9	Ccompis:Control:d45	Sullu:Stress:d45	344.75	322.83	1.07	0.4461
10	Ccompis:Control:d45	Sullu:Stress:d60	344.75	885.00	0.39	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	344.75	365.80	0.94	0.4811
12	Ccompis:Control:d60	Ccompis:Control:d75	326.00	549.20	0.59	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	326.00	396.33	0.82	0.0115
14	Ccompis:Control:d60	Ccompis:Stress:d60	326.00	674.00	0.48	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	326.00	650.80	0.50	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	326.00	129.50	2.52	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	326.00	369.40	0.88	0.1271
18	Ccompis:Control:d60	Sullu:Control:d75	326.00	331.40	0.98	0.8476
19	Ccompis:Control:d60	Sullu:Stress:d45	326.00	322.83	1.01	0.9063
20	Ccompis:Control:d60	Sullu:Stress:d60	326.00	885.00	0.37	**0**

21	Ccompis:Control:d60	Sullu:Stress:d75	326.00	365.80	0.89	0.161
22	Ccompis:Control:d75	Ccompis:Stress:d45	549.20	396.33	1.39	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	549.20	674.00	0.81	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	549.20	650.80	0.84	**0.0007**
25	Ccompis:Control:d75	Sullu:Control:d45	549.20	129.50	4.24	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	549.20	369.40	1.49	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	549.20	331.40	1.66	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	549.20	322.83	1.70	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	549.20	885.00	0.62	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	549.20	365.80	1.50	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	396.33	674.00	0.59	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	396.33	650.80	0.61	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	396.33	129.50	3.06	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	396.33	369.40	1.07	0.3193
35	Ccompis:Stress:d45	Sullu:Control:d75	396.33	331.40	1.20	0.0191
36	Ccompis:Stress:d45	Sullu:Stress:d45	396.33	322.83	1.23	**0.0059**
37	Ccompis:Stress:d45	Sullu:Stress:d60	396.33	885.00	0.45	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	396.33	365.80	1.08	0.2596
39	Ccompis:Stress:d60	Ccompis:Stress:d75	674.00	650.80	1.04	0.4107
40	Ccompis:Stress:d60	Sullu:Control:d45	674.00	129.50	5.20	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	674.00	369.40	1.82	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	674.00	331.40	2.03	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	674.00	322.83	2.09	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	674.00	885.00	0.76	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	674.00	365.80	1.84	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	650.80	129.50	5.03	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	650.80	369.40	1.76	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	650.80	331.40	1.96	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	650.80	322.83	2.02	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	650.80	885.00	0.74	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	650.80	365.80	1.78	**0**
52	Sullu:Control:d45	Sullu:Control:d60	129.50	369.40	0.35	**0**
53	Sullu:Control:d45	Sullu:Control:d75	129.50	331.40	0.39	**0**
54	Sullu:Control:d45	Sullu:Stress:d45	129.50	322.83	0.40	**0**
55	Sullu:Control:d45	Sullu:Stress:d60	129.50	885.00	0.15	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	129.50	365.80	0.35	**0**
57	Sullu:Control:d60	Sullu:Control:d75	369.40	331.40	1.11	0.1804
58	Sullu:Control:d60	Sullu:Stress:d45	369.40	322.83	1.14	0.0883
59	Sullu:Control:d60	Sullu:Stress:d60	369.40	885.00	0.42	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	369.40	365.80	1.01	0.8981
61	Sullu:Control:d75	Sullu:Stress:d45	331.40	322.83	1.03	0.7503
62	Sullu:Control:d75	Sullu:Stress:d60	331.40	885.00	0.37	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	331.40	365.80	0.91	0.2244
64	Sullu:Stress:d45	Sullu:Stress:d60	322.83	885.00	0.36	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	322.83	365.80	0.88	0.1149
66	Sullu:Stress:d60	Sullu:Stress:d75	885.00	365.80	2.42	**0**

MELEZITOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	161.50	114.60	1.41	0.1202
2	Ccompis:Control:d45	Ccompis:Control:d75	161.50	1217.40	0.13	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	161.50	170.67	0.95	0.7494
4	Ccompis:Control:d45	Ccompis:Stress:d60	161.50	396.40	0.41	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	161.50	266.60	0.61	**0.0009**
6	Ccompis:Control:d45	Sullu:Control:d45	161.50	489.00	0.33	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	161.50	637.60	0.25	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	161.50	509.60	0.32	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	161.50	568.83	0.28	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	161.50	363.40	0.44	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	161.50	678.80	0.24	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	114.60	1217.40	0.09	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	114.60	170.67	0.67	0.0415
14	Ccompis:Control:d60	Ccompis:Stress:d60	114.60	396.40	0.29	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	114.60	266.60	0.43	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	114.60	489.00	0.23	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	114.60	637.60	0.18	**0**

18	Ccompis:Control:d60	Sullu:Control:d75	114.60	509.60	0.22	0
19	Ccompis:Control:d60	Sullu:Stress:d45	114.60	568.83	0.20	0
20	Ccompis:Control:d60	Sullu:Stress:d60	114.60	363.40	0.32	0
21	Ccompis:Control:d60	Sullu:Stress:d75	114.60	678.80	0.17	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	1217.40	170.67	7.13	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	1217.40	396.40	3.07	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	1217.40	266.60	4.57	0
25	Ccompis:Control:d75	Sullu:Control:d45	1217.40	489.00	2.49	0
26	Ccompis:Control:d75	Sullu:Control:d60	1217.40	637.60	1.91	0
27	Ccompis:Control:d75	Sullu:Control:d75	1217.40	509.60	2.39	0
28	Ccompis:Control:d75	Sullu:Stress:d45	1217.40	568.83	2.14	0
29	Ccompis:Control:d75	Sullu:Stress:d60	1217.40	363.40	3.35	0
30	Ccompis:Control:d75	Sullu:Stress:d75	1217.40	678.80	1.79	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	170.67	396.40	0.43	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	170.67	266.60	0.64	0.0008
33	Ccompis:Stress:d45	Sullu:Control:d45	170.67	489.00	0.35	0
34	Ccompis:Stress:d45	Sullu:Control:d60	170.67	637.60	0.27	0
35	Ccompis:Stress:d45	Sullu:Control:d75	170.67	509.60	0.33	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	170.67	568.83	0.30	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	170.67	363.40	0.47	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	170.67	678.80	0.25	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	396.40	266.60	1.49	0
40	Ccompis:Stress:d60	Sullu:Control:d45	396.40	489.00	0.81	0.003
41	Ccompis:Stress:d60	Sullu:Control:d60	396.40	637.60	0.62	0
42	Ccompis:Stress:d60	Sullu:Control:d75	396.40	509.60	0.78	0.0002
43	Ccompis:Stress:d60	Sullu:Stress:d45	396.40	568.83	0.70	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	396.40	363.40	1.09	0.2436
45	Ccompis:Stress:d60	Sullu:Stress:d75	396.40	678.80	0.58	0
46	Ccompis:Stress:d75	Sullu:Control:d45	266.60	489.00	0.55	0
47	Ccompis:Stress:d75	Sullu:Control:d60	266.60	637.60	0.42	0
48	Ccompis:Stress:d75	Sullu:Control:d75	266.60	509.60	0.52	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	266.60	568.83	0.47	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	266.60	363.40	0.73	0.0011
51	Ccompis:Stress:d75	Sullu:Stress:d75	266.60	678.80	0.39	0
52	Sullu:Control:d45	Sullu:Control:d60	489.00	637.60	0.77	0
53	Sullu:Control:d45	Sullu:Control:d75	489.00	509.60	0.96	0.4905
54	Sullu:Control:d45	Sullu:Stress:d45	489.00	568.83	0.86	0.0074
55	Sullu:Control:d45	Sullu:Stress:d60	489.00	363.40	1.35	0.0001
56	Sullu:Control:d45	Sullu:Stress:d75	489.00	678.80	0.72	0
57	Sullu:Control:d60	Sullu:Control:d75	637.60	509.60	1.25	0
58	Sullu:Control:d60	Sullu:Stress:d45	637.60	568.83	1.12	0.0133
59	Sullu:Control:d60	Sullu:Stress:d60	637.60	363.40	1.75	0
60	Sullu:Control:d60	Sullu:Stress:d75	637.60	678.80	0.94	0.147
61	Sullu:Control:d75	Sullu:Stress:d45	509.60	568.83	0.90	0.0317
62	Sullu:Control:d75	Sullu:Stress:d60	509.60	363.40	1.40	0
63	Sullu:Control:d75	Sullu:Stress:d75	509.60	678.80	0.75	0
64	Sullu:Stress:d45	Sullu:Stress:d60	568.83	363.40	1.57	0
65	Sullu:Stress:d45	Sullu:Stress:d75	568.83	678.80	0.84	0.0002
66	Sullu:Stress:d60	Sullu:Stress:d75	363.40	678.80	0.54	0

MELIBIOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	235.75	177.80	1.33	0.0565
2	Ccompis:Control:d45	Ccompis:Control:d75	235.75	462.00	0.51	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	235.75	207.50	1.14	0.327
4	Ccompis:Control:d45	Ccompis:Stress:d60	235.75	1129.20	0.21	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	235.75	354.40	0.67	0.0002
6	Ccompis:Control:d45	Sullu:Control:d45	235.75	409.25	0.58	0
7	Ccompis:Control:d45	Sullu:Control:d60	235.75	1339.00	0.18	0
8	Ccompis:Control:d45	Sullu:Control:d75	235.75	636.40	0.37	0
9	Ccompis:Control:d45	Sullu:Stress:d45	235.75	901.50	0.26	0
10	Ccompis:Control:d45	Sullu:Stress:d60	235.75	4585.00	0.05	0
11	Ccompis:Control:d45	Sullu:Stress:d75	235.75	466.00	0.51	0
12	Ccompis:Control:d60	Ccompis:Control:d75	177.80	462.00	0.38	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	177.80	207.50	0.86	0.2726
14	Ccompis:Control:d60	Ccompis:Stress:d60	177.80	1129.20	0.16	0

15	Ccompis:Control:d60	Ccompis:Stress:d75	177.80	354.40	0.50	0
16	Ccompis:Control:d60	Sullu:Control:d45	177.80	409.25	0.43	0
17	Ccompis:Control:d60	Sullu:Control:d60	177.80	1339.00	0.13	0
18	Ccompis:Control:d60	Sullu:Control:d75	177.80	636.40	0.28	0
19	Ccompis:Control:d60	Sullu:Stress:d45	177.80	901.50	0.20	0
20	Ccompis:Control:d60	Sullu:Stress:d60	177.80	4585.00	0.04	0
21	Ccompis:Control:d60	Sullu:Stress:d75	177.80	466.00	0.38	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	462.00	207.50	2.23	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	462.00	1129.20	0.41	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	462.00	354.40	1.30	0.0003
25	Ccompis:Control:d75	Sullu:Control:d45	462.00	409.25	1.13	0.0815
26	Ccompis:Control:d75	Sullu:Control:d60	462.00	1339.00	0.35	0
27	Ccompis:Control:d75	Sullu:Control:d75	462.00	636.40	0.73	0
28	Ccompis:Control:d75	Sullu:Stress:d45	462.00	901.50	0.51	0
29	Ccompis:Control:d75	Sullu:Stress:d60	462.00	4585.00	0.10	0
30	Ccompis:Control:d75	Sullu:Stress:d75	462.00	466.00	0.99	0.8868
31	Ccompis:Stress:d45	Ccompis:Stress:d60	207.50	1129.20	0.18	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	207.50	354.40	0.59	0
33	Ccompis:Stress:d45	Sullu:Control:d45	207.50	409.25	0.51	0
34	Ccompis:Stress:d45	Sullu:Control:d60	207.50	1339.00	0.15	0
35	Ccompis:Stress:d45	Sullu:Control:d75	207.50	636.40	0.33	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	207.50	901.50	0.23	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	207.50	4585.00	0.05	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	207.50	466.00	0.45	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	1129.20	354.40	3.19	0
40	Ccompis:Stress:d60	Sullu:Control:d45	1129.20	409.25	2.76	0
41	Ccompis:Stress:d60	Sullu:Control:d60	1129.20	1339.00	0.84	0
42	Ccompis:Stress:d60	Sullu:Control:d75	1129.20	636.40	1.77	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	1129.20	901.50	1.25	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	1129.20	4585.00	0.25	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	1129.20	466.00	2.42	0
46	Ccompis:Stress:d75	Sullu:Control:d45	354.40	409.25	0.87	0.0705
47	Ccompis:Stress:d75	Sullu:Control:d60	354.40	1339.00	0.26	0
48	Ccompis:Stress:d75	Sullu:Control:d75	354.40	636.40	0.56	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	354.40	901.50	0.39	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	354.40	4585.00	0.08	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	354.40	466.00	0.76	0.0002
52	Sullu:Control:d45	Sullu:Control:d60	409.25	1339.00	0.31	0
53	Sullu:Control:d45	Sullu:Control:d75	409.25	636.40	0.64	0
54	Sullu:Control:d45	Sullu:Stress:d45	409.25	901.50	0.45	0
55	Sullu:Control:d45	Sullu:Stress:d60	409.25	4585.00	0.09	0
56	Sullu:Control:d45	Sullu:Stress:d75	409.25	466.00	0.88	0.0616
57	Sullu:Control:d60	Sullu:Control:d75	1339.00	636.40	2.10	0
58	Sullu:Control:d60	Sullu:Stress:d45	1339.00	901.50	1.49	0
59	Sullu:Control:d60	Sullu:Stress:d60	1339.00	4585.00	0.29	0
60	Sullu:Control:d60	Sullu:Stress:d75	1339.00	466.00	2.87	0
61	Sullu:Control:d75	Sullu:Stress:d45	636.40	901.50	0.71	0
62	Sullu:Control:d75	Sullu:Stress:d60	636.40	4585.00	0.14	0
63	Sullu:Control:d75	Sullu:Stress:d75	636.40	466.00	1.37	0
64	Sullu:Stress:d45	Sullu:Stress:d60	901.50	4585.00	0.20	0
65	Sullu:Stress:d45	Sullu:Stress:d75	901.50	466.00	1.93	0
66	Sullu:Stress:d60	Sullu:Stress:d75	4585.00	466.00	9.84	0

PHENYLALANINE

1	Ccompis:Control:d45	Ccompis:Control:d60	49.50	53.80	0.92	0.8853
2	Ccompis:Control:d45	Ccompis:Control:d75	49.50	65.00	0.76	0.6035
3	Ccompis:Control:d45	Ccompis:Stress:d45	49.50	79.00	0.63	0.3063
4	Ccompis:Control:d45	Ccompis:Stress:d60	49.50	100.00	0.50	0.095
5	Ccompis:Control:d45	Ccompis:Stress:d75	49.50	84.60	0.59	0.2423
6	Ccompis:Control:d45	Sullu:Control:d45	49.50	68.00	0.73	0.5567
7	Ccompis:Control:d45	Sullu:Control:d60	49.50	52.60	0.94	0.9172
8	Ccompis:Control:d45	Sullu:Control:d75	49.50	23.20	2.13	0.3795
9	Ccompis:Control:d45	Sullu:Stress:d45	49.50	61.83	0.80	0.6675
10	Ccompis:Control:d45	Sullu:Stress:d60	49.50	640.00	0.08	0
11	Ccompis:Control:d45	Sullu:Stress:d75	49.50	17.40	2.84	0.2844

12	Ccompis:Control:d60	Ccompis:Control:d75	53.80	65.00	0.83	0.6904
13	Ccompis:Control:d60	Ccompis:Stress:d45	53.80	79.00	0.68	0.3511
14	Ccompis:Control:d60	Ccompis:Stress:d60	53.80	100.00	0.54	0.1049
15	Ccompis:Control:d60	Ccompis:Stress:d75	53.80	84.60	0.64	0.276
16	Ccompis:Control:d60	Sullu:Control:d45	53.80	68.00	0.79	0.6341
17	Ccompis:Control:d60	Sullu:Control:d60	53.80	52.60	1.02	0.9659
18	Ccompis:Control:d60	Sullu:Control:d75	53.80	23.20	2.32	0.2791
19	Ccompis:Control:d60	Sullu:Stress:d45	53.80	61.83	0.87	0.7653
20	Ccompis:Control:d60	Sullu:Stress:d60	53.80	640.00	0.08	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	53.80	17.40	3.09	0.1991
22	Ccompis:Control:d75	Ccompis:Stress:d45	65.00	79.00	0.82	0.6033
23	Ccompis:Control:d75	Ccompis:Stress:d60	65.00	100.00	0.65	0.2166
24	Ccompis:Control:d75	Ccompis:Stress:d75	65.00	84.60	0.77	0.4866
25	Ccompis:Control:d75	Sullu:Control:d45	65.00	68.00	0.96	0.9198
26	Ccompis:Control:d75	Sullu:Control:d60	65.00	52.60	1.24	0.6593
27	Ccompis:Control:d75	Sullu:Control:d75	65.00	23.20	2.80	0.1414
28	Ccompis:Control:d75	Sullu:Stress:d45	65.00	61.83	1.05	0.9063
29	Ccompis:Control:d75	Sullu:Stress:d60	65.00	640.00	0.10	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	65.00	17.40	3.74	0.0951
31	Ccompis:Stress:d45	Ccompis:Stress:d60	79.00	100.00	0.79	0.4365
32	Ccompis:Stress:d45	Ccompis:Stress:d75	79.00	84.60	0.93	0.8351
33	Ccompis:Stress:d45	Sullu:Control:d45	79.00	68.00	1.16	0.7015
34	Ccompis:Stress:d45	Sullu:Control:d60	79.00	52.60	1.50	0.3289
35	Ccompis:Stress:d45	Sullu:Control:d75	79.00	23.20	3.41	0.0424
36	Ccompis:Stress:d45	Sullu:Stress:d45	79.00	61.83	1.28	0.5043
37	Ccompis:Stress:d45	Sullu:Stress:d60	79.00	640.00	0.12	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	79.00	17.40	4.54	0.0257
39	Ccompis:Stress:d60	Ccompis:Stress:d75	100.00	84.60	1.18	0.5842
40	Ccompis:Stress:d60	Sullu:Control:d45	100.00	68.00	1.47	0.2858
41	Ccompis:Stress:d60	Sullu:Control:d60	100.00	52.60	1.90	0.0964
42	Ccompis:Stress:d60	Sullu:Control:d75	100.00	23.20	4.31	**0.0084**
43	Ccompis:Stress:d60	Sullu:Stress:d45	100.00	61.83	1.62	0.1603
44	Ccompis:Stress:d60	Sullu:Stress:d60	100.00	640.00	0.16	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	100.00	17.40	5.75	**0.0048**
46	Ccompis:Stress:d75	Sullu:Control:d45	84.60	68.00	1.24	0.5782
47	Ccompis:Stress:d75	Sullu:Control:d60	84.60	52.60	1.61	0.258
48	Ccompis:Stress:d75	Sullu:Control:d75	84.60	23.20	3.65	0.0329
49	Ccompis:Stress:d75	Sullu:Stress:d45	84.60	61.83	1.37	0.3992
50	Ccompis:Stress:d75	Sullu:Stress:d60	84.60	640.00	0.13	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	84.60	17.40	4.86	0.0201
52	Sullu:Control:d45	Sullu:Control:d60	68.00	52.60	1.29	0.6059
53	Sullu:Control:d45	Sullu:Control:d75	68.00	23.20	2.93	0.1373
54	Sullu:Control:d45	Sullu:Stress:d45	68.00	61.83	1.10	0.8298
55	Sullu:Control:d45	Sullu:Stress:d60	68.00	640.00	0.11	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	68.00	17.40	3.91	0.0943
57	Sullu:Control:d60	Sullu:Control:d75	52.60	23.20	2.27	0.2982
58	Sullu:Control:d60	Sullu:Stress:d45	52.60	61.83	0.85	0.7316
59	Sullu:Control:d60	Sullu:Stress:d60	52.60	640.00	0.08	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	52.60	17.40	3.02	0.214
61	Sullu:Control:d75	Sullu:Stress:d45	23.20	61.83	0.38	0.1554
62	Sullu:Control:d75	Sullu:Stress:d60	23.20	640.00	0.04	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	23.20	17.40	1.33	0.8365
64	Sullu:Stress:d45	Sullu:Stress:d60	61.83	640.00	0.10	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	61.83	17.40	3.55	0.1034
66	Sullu:Stress:d60	Sullu:Stress:d75	640.00	17.40	36.78	**0**

PYRUVIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	38.75	38.20	1.01	0.9853
2	Ccompis:Control:d45	Ccompis:Control:d75	38.75	66.60	0.58	0.3523
3	Ccompis:Control:d45	Ccompis:Stress:d45	38.75	61.67	0.63	0.4258
4	Ccompis:Control:d45	Ccompis:Stress:d60	38.75	76.00	0.51	0.2151
5	Ccompis:Control:d45	Ccompis:Stress:d75	38.75	76.00	0.51	0.2151
6	Ccompis:Control:d45	Sullu:Control:d45	38.75	484.50	0.08	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	38.75	413.00	0.09	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	38.75	650.80	0.06	**0**

9	Ccompis:Control:d45	Sullu:Stress:d45	38.75	564.17	0.07	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	38.75	733.20	0.05	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	38.75	741.80	0.05	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	38.20	66.60	0.57	0.3147
13	Ccompis:Control:d60	Ccompis:Stress:d45	38.20	61.67	0.62	0.3849
14	Ccompis:Control:d60	Ccompis:Stress:d60	38.20	76.00	0.50	0.1826
15	Ccompis:Control:d60	Ccompis:Stress:d75	38.20	76.00	0.50	0.1826
16	Ccompis:Control:d60	Sullu:Control:d45	38.20	484.50	0.08	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	38.20	413.00	0.09	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	38.20	650.80	0.06	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	38.20	564.17	0.07	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	38.20	733.20	0.05	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	38.20	741.80	0.05	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	66.60	61.67	1.08	0.8545
23	Ccompis:Control:d75	Ccompis:Stress:d60	66.60	76.00	0.88	0.7381
24	Ccompis:Control:d75	Ccompis:Stress:d75	66.60	76.00	0.88	0.7381
25	Ccompis:Control:d75	Sullu:Control:d45	66.60	484.50	0.14	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	66.60	413.00	0.16	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	66.60	650.80	0.10	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	66.60	564.17	0.12	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	66.60	733.20	0.09	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	66.60	741.80	0.09	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	61.67	76.00	0.81	0.5947
32	Ccompis:Stress:d45	Ccompis:Stress:d75	61.67	76.00	0.81	0.5947
33	Ccompis:Stress:d45	Sullu:Control:d45	61.67	484.50	0.13	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	61.67	413.00	0.15	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	61.67	650.80	0.09	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	61.67	564.17	0.11	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	61.67	733.20	0.08	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	61.67	741.80	0.08	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	76.00	76.00	1.00	1
40	Ccompis:Stress:d60	Sullu:Control:d45	76.00	484.50	0.16	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	76.00	413.00	0.18	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	76.00	650.80	0.12	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	76.00	564.17	0.13	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	76.00	733.20	0.10	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	76.00	741.80	0.10	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	76.00	484.50	0.16	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	76.00	413.00	0.18	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	76.00	650.80	0.12	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	76.00	564.17	0.13	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	76.00	733.20	0.10	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	76.00	741.80	0.10	**0**
52	Sullu:Control:d45	Sullu:Control:d60	484.50	413.00	1.17	0.0198
53	Sullu:Control:d45	Sullu:Control:d75	484.50	650.80	0.74	**0**
54	Sullu:Control:d45	Sullu:Stress:d45	484.50	564.17	0.86	**0.0075**
55	Sullu:Control:d45	Sullu:Stress:d60	484.50	733.20	0.66	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	484.50	741.80	0.65	**0**
57	Sullu:Control:d60	Sullu:Control:d75	413.00	650.80	0.63	**0**
58	Sullu:Control:d60	Sullu:Stress:d45	413.00	564.17	0.73	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	413.00	733.20	0.56	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	413.00	741.80	0.56	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	650.80	564.17	1.15	**0.0022**
62	Sullu:Control:d75	Sullu:Stress:d60	650.80	733.20	0.89	**0.0049**
63	Sullu:Control:d75	Sullu:Stress:d75	650.80	741.80	0.88	**0.0021**
64	Sullu:Stress:d45	Sullu:Stress:d60	564.17	733.20	0.77	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	564.17	741.80	0.76	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	733.20	741.80	0.99	0.7597

QUINIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	1907.50	2228.60	0.86	**0**
2	Ccompis:Control:d45	Ccompis:Control:d75	1907.50	2692.00	0.71	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	1907.50	1843.83	1.03	0.0303
4	Ccompis:Control:d45	Ccompis:Stress:d60	1907.50	3714.20	0.51	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	1907.50	4286.60	0.44	**0**

6	Ccompis:Control:d45	Sullu:Control:d45	1907.50	1895.00	1.01	0.6909
7	Ccompis:Control:d45	Sullu:Control:d60	1907.50	1513.20	1.26	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	1907.50	1792.00	1.06	**0.0003**
9	Ccompis:Control:d45	Sullu:Stress:d45	1907.50	1904.00	1.00	0.9029
10	Ccompis:Control:d45	Sullu:Stress:d60	1907.50	1651.60	1.15	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	1907.50	4285.20	0.45	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	2228.60	2692.00	0.83	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	2228.60	1843.83	1.21	**0**
14	Ccompis:Control:d60	Ccompis:Stress:d60	2228.60	3714.20	0.60	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	2228.60	4286.60	0.52	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	2228.60	1895.00	1.18	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	2228.60	1513.20	1.47	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	2228.60	1792.00	1.24	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	2228.60	1904.00	1.17	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	2228.60	1651.60	1.35	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	2228.60	4285.20	0.52	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	2692.00	1843.83	1.46	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	2692.00	3714.20	0.72	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	2692.00	4286.60	0.63	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	2692.00	1895.00	1.42	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	2692.00	1513.20	1.78	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	2692.00	1792.00	1.50	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	2692.00	1904.00	1.41	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	2692.00	1651.60	1.63	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	2692.00	4285.20	0.63	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	1843.83	3714.20	0.50	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	1843.83	4286.60	0.43	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	1843.83	1895.00	0.97	0.0792
34	Ccompis:Stress:d45	Sullu:Control:d60	1843.83	1513.20	1.22	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	1843.83	1792.00	1.03	0.0587
36	Ccompis:Stress:d45	Sullu:Stress:d45	1843.83	1904.00	0.97	0.0225
37	Ccompis:Stress:d45	Sullu:Stress:d60	1843.83	1651.60	1.12	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	1843.83	4285.20	0.43	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	3714.20	4286.60	0.87	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	3714.20	1895.00	1.96	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	3714.20	1513.20	2.45	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	3714.20	1792.00	2.07	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	3714.20	1904.00	1.95	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	3714.20	1651.60	2.25	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	3714.20	4285.20	0.87	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	4286.60	1895.00	2.26	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	4286.60	1513.20	2.83	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	4286.60	1792.00	2.39	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	4286.60	1904.00	2.25	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	4286.60	1651.60	2.60	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	4286.60	4285.20	1.00	0.9603
52	Sullu:Control:d45	Sullu:Control:d60	1895.00	1513.20	1.25	**0**
53	Sullu:Control:d45	Sullu:Control:d75	1895.00	1792.00	1.06	**0.0011**
54	Sullu:Control:d45	Sullu:Stress:d45	1895.00	1904.00	1.00	0.7538
55	Sullu:Control:d45	Sullu:Stress:d60	1895.00	1651.60	1.15	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	1895.00	4285.20	0.44	**0**
57	Sullu:Control:d60	Sullu:Control:d75	1513.20	1792.00	0.84	**0**
58	Sullu:Control:d60	Sullu:Stress:d45	1513.20	1904.00	0.79	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	1513.20	1651.60	0.92	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	1513.20	4285.20	0.35	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	1792.00	1904.00	0.94	**0.0001**
62	Sullu:Control:d75	Sullu:Stress:d60	1792.00	1651.60	1.09	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	1792.00	4285.20	0.42	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	1904.00	1651.60	1.15	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	1904.00	4285.20	0.44	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	1651.60	4285.20	0.39	**0**

RHAMNOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	179.50	148.00	1.21	0.2933
2	Ccompis:Control:d45	Ccompis:Control:d75	179.50	145.40	1.23	0.2558

3	Ccompis:Control:d45	Ccompis:Stress:d45	179.50	104.67	1.71	0.0116
4	Ccompis:Control:d45	Ccompis:Stress:d60	179.50	116.80	1.54	0.0397
5	Ccompis:Control:d45	Ccompis:Stress:d75	179.50	180.40	1.00	0.9759
6	Ccompis:Control:d45	Sullu:Control:d45	179.50	73.75	2.43	**0.0014**
7	Ccompis:Control:d45	Sullu:Control:d60	179.50	69.00	2.60	**0.0005**
8	Ccompis:Control:d45	Sullu:Control:d75	179.50	85.60	2.10	**0.0027**
9	Ccompis:Control:d45	Sullu:Stress:d45	179.50	75.83	2.37	**0.0007**
10	Ccompis:Control:d45	Sullu:Stress:d60	179.50	84.40	2.13	**0.0024**
11	Ccompis:Control:d45	Sullu:Stress:d75	179.50	82.80	2.17	**0.002**
12	Ccompis:Control:d60	Ccompis:Control:d75	148.00	145.40	1.02	0.9263
13	Ccompis:Control:d60	Ccompis:Stress:d45	148.00	104.67	1.41	0.112
14	Ccompis:Control:d60	Ccompis:Stress:d60	148.00	116.80	1.27	0.2699
15	Ccompis:Control:d60	Ccompis:Stress:d75	148.00	180.40	0.82	0.2521
16	Ccompis:Control:d60	Sullu:Control:d45	148.00	73.75	2.01	0.0157
17	Ccompis:Control:d60	Sullu:Control:d60	148.00	69.00	2.14	**0.0068**
18	Ccompis:Control:d60	Sullu:Control:d75	148.00	85.60	1.73	0.0303
19	Ccompis:Control:d60	Sullu:Stress:d45	148.00	75.83	1.95	**0.0096**
20	Ccompis:Control:d60	Sullu:Stress:d60	148.00	84.40	1.75	0.0274
21	Ccompis:Control:d60	Sullu:Stress:d75	148.00	82.80	1.79	0.0239
22	Ccompis:Control:d75	Ccompis:Stress:d45	145.40	104.67	1.39	0.1346
23	Ccompis:Control:d75	Ccompis:Stress:d60	145.40	116.80	1.24	0.3114
24	Ccompis:Control:d75	Ccompis:Stress:d75	145.40	180.40	0.81	0.2166
25	Ccompis:Control:d75	Sullu:Control:d45	145.40	73.75	1.97	0.0195
26	Ccompis:Control:d75	Sullu:Control:d60	145.40	69.00	2.11	**0.0088**
27	Ccompis:Control:d75	Sullu:Control:d75	145.40	85.60	1.70	0.0375
28	Ccompis:Control:d75	Sullu:Stress:d45	145.40	75.83	1.92	0.0124
29	Ccompis:Control:d75	Sullu:Stress:d60	145.40	84.40	1.72	0.034
30	Ccompis:Control:d75	Sullu:Stress:d75	145.40	82.80	1.76	0.0298
31	Ccompis:Stress:d45	Ccompis:Stress:d60	104.67	116.80	0.90	0.6523
32	Ccompis:Stress:d45	Ccompis:Stress:d75	104.67	180.40	0.58	**0.0068**
33	Ccompis:Stress:d45	Sullu:Control:d45	104.67	73.75	1.42	0.2839
34	Ccompis:Stress:d45	Sullu:Control:d60	104.67	69.00	1.52	0.1889
35	Ccompis:Stress:d45	Sullu:Control:d75	104.67	85.60	1.22	0.4796
36	Ccompis:Stress:d45	Sullu:Stress:d45	104.67	75.83	1.38	0.2641
37	Ccompis:Stress:d45	Sullu:Stress:d60	104.67	84.40	1.24	0.4526
38	Ccompis:Stress:d45	Sullu:Stress:d75	104.67	82.80	1.26	0.4179
39	Ccompis:Stress:d60	Ccompis:Stress:d75	116.80	180.40	0.65	0.0274
40	Ccompis:Stress:d60	Sullu:Control:d45	116.80	73.75	1.58	0.153
41	Ccompis:Stress:d60	Sullu:Control:d60	116.80	69.00	1.69	0.0937
42	Ccompis:Stress:d60	Sullu:Control:d75	116.80	85.60	1.36	0.2699
43	Ccompis:Stress:d60	Sullu:Stress:d45	116.80	75.83	1.54	0.1324
44	Ccompis:Stress:d60	Sullu:Stress:d60	116.80	84.40	1.38	0.2521
45	Ccompis:Stress:d60	Sullu:Stress:d75	116.80	82.80	1.41	0.2298
46	Ccompis:Stress:d75	Sullu:Control:d45	180.40	73.75	2.45	**0.0008**
47	Ccompis:Stress:d75	Sullu:Control:d60	180.40	69.00	2.61	**0.0002**
48	Ccompis:Stress:d75	Sullu:Control:d75	180.40	85.60	2.11	**0.0014**
49	Ccompis:Stress:d75	Sullu:Stress:d45	180.40	75.83	2.38	**0.0003**
50	Ccompis:Stress:d75	Sullu:Stress:d60	180.40	84.40	2.14	**0.0012**
51	Ccompis:Stress:d75	Sullu:Stress:d75	180.40	82.80	2.18	**0.001**
52	Sullu:Control:d45	Sullu:Control:d60	73.75	69.00	1.07	0.8734
53	Sullu:Control:d45	Sullu:Control:d75	73.75	85.60	0.86	0.6912
54	Sullu:Control:d45	Sullu:Stress:d45	73.75	75.83	0.97	0.9421
55	Sullu:Control:d45	Sullu:Stress:d60	73.75	84.40	0.87	0.721
56	Sullu:Control:d45	Sullu:Stress:d75	73.75	82.80	0.89	0.7615
57	Sullu:Control:d60	Sullu:Control:d75	69.00	85.60	0.81	0.5554
58	Sullu:Control:d60	Sullu:Stress:d45	69.00	75.83	0.91	0.7996
59	Sullu:Control:d60	Sullu:Stress:d60	69.00	84.40	0.82	0.5842
60	Sullu:Control:d60	Sullu:Stress:d75	69.00	82.80	0.83	0.6238
61	Sullu:Control:d75	Sullu:Stress:d45	85.60	75.83	1.13	0.7168
62	Sullu:Control:d75	Sullu:Stress:d60	85.60	84.40	1.01	0.9659
63	Sullu:Control:d75	Sullu:Stress:d75	85.60	82.80	1.03	0.9206
64	Sullu:Stress:d45	Sullu:Stress:d60	75.83	84.40	0.90	0.7503
65	Sullu:Stress:d45	Sullu:Stress:d75	75.83	82.80	0.92	0.7957
66	Sullu:Stress:d60	Sullu:Stress:d75	84.40	82.80	1.02	0.9546

SERINE

1	Ccompis:Control:d45	Ccompis:Control:d60	124.75	114.20	1.09	0.7235
2	Ccompis:Control:d45	Ccompis:Control:d75	124.75	101.60	1.23	0.4387
3	Ccompis:Control:d45	Ccompis:Stress:d45	124.75	130.33	0.96	0.8457
4	Ccompis:Control:d45	Ccompis:Stress:d60	124.75	185.60	0.67	0.0456
5	Ccompis:Control:d45	Ccompis:Stress:d75	124.75	141.60	0.88	0.5725
6	Ccompis:Control:d45	Sullu:Control:d45	124.75	1079.75	0.12	0
7	Ccompis:Control:d45	Sullu:Control:d60	124.75	820.60	0.15	0
8	Ccompis:Control:d45	Sullu:Control:d75	124.75	453.60	0.28	0
9	Ccompis:Control:d45	Sullu:Stress:d45	124.75	1109.00	0.11	0
10	Ccompis:Control:d45	Sullu:Stress:d60	124.75	1056.80	0.12	0
11	Ccompis:Control:d45	Sullu:Stress:d75	124.75	794.20	0.16	0
12	Ccompis:Control:d60	Ccompis:Control:d75	114.20	101.60	1.12	0.6542
13	Ccompis:Control:d60	Ccompis:Stress:d45	114.20	130.33	0.88	0.5495
14	Ccompis:Control:d60	Ccompis:Stress:d60	114.20	185.60	0.62	0.0139
15	Ccompis:Control:d60	Ccompis:Stress:d75	114.20	141.60	0.81	0.3319
16	Ccompis:Control:d60	Sullu:Control:d45	114.20	1079.75	0.11	0
17	Ccompis:Control:d60	Sullu:Control:d60	114.20	820.60	0.14	0
18	Ccompis:Control:d60	Sullu:Control:d75	114.20	453.60	0.25	0
19	Ccompis:Control:d60	Sullu:Stress:d45	114.20	1109.00	0.10	0
20	Ccompis:Control:d60	Sullu:Stress:d60	114.20	1056.80	0.11	0
21	Ccompis:Control:d60	Sullu:Stress:d75	114.20	794.20	0.14	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	101.60	130.33	0.78	0.2884
23	Ccompis:Control:d75	Ccompis:Stress:d60	101.60	185.60	0.55	**0.0042**
24	Ccompis:Control:d75	Ccompis:Stress:d75	101.60	141.60	0.72	0.1589
25	Ccompis:Control:d75	Sullu:Control:d45	101.60	1079.75	0.09	0
26	Ccompis:Control:d75	Sullu:Control:d60	101.60	820.60	0.12	0
27	Ccompis:Control:d75	Sullu:Control:d75	101.60	453.60	0.22	0
28	Ccompis:Control:d75	Sullu:Stress:d45	101.60	1109.00	0.09	0
29	Ccompis:Control:d75	Sullu:Stress:d60	101.60	1056.80	0.10	0
30	Ccompis:Control:d75	Sullu:Stress:d75	101.60	794.20	0.13	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	130.33	185.60	0.70	0.0443
32	Ccompis:Stress:d45	Ccompis:Stress:d75	130.33	141.60	0.92	0.6756
33	Ccompis:Stress:d45	Sullu:Control:d45	130.33	1079.75	0.12	0
34	Ccompis:Stress:d45	Sullu:Control:d60	130.33	820.60	0.16	0
35	Ccompis:Stress:d45	Sullu:Control:d75	130.33	453.60	0.29	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	130.33	1109.00	0.12	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	130.33	1056.80	0.12	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	130.33	794.20	0.16	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	185.60	141.60	1.31	0.122
40	Ccompis:Stress:d60	Sullu:Control:d45	185.60	1079.75	0.17	0
41	Ccompis:Stress:d60	Sullu:Control:d60	185.60	820.60	0.23	0
42	Ccompis:Stress:d60	Sullu:Control:d75	185.60	453.60	0.41	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	185.60	1109.00	0.17	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	185.60	1056.80	0.18	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	185.60	794.20	0.23	0
46	Ccompis:Stress:d75	Sullu:Control:d45	141.60	1079.75	0.13	0
47	Ccompis:Stress:d75	Sullu:Control:d60	141.60	820.60	0.17	0
48	Ccompis:Stress:d75	Sullu:Control:d75	141.60	453.60	0.31	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	141.60	1109.00	0.13	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	141.60	1056.80	0.13	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	141.60	794.20	0.18	0
52	Sullu:Control:d45	Sullu:Control:d60	1079.75	820.60	1.32	0
53	Sullu:Control:d45	Sullu:Control:d75	1079.75	453.60	2.38	0
54	Sullu:Control:d45	Sullu:Stress:d45	1079.75	1109.00	0.97	0.3104
55	Sullu:Control:d45	Sullu:Stress:d60	1079.75	1056.80	1.02	0.4427
56	Sullu:Control:d45	Sullu:Stress:d75	1079.75	794.20	1.36	0
57	Sullu:Control:d60	Sullu:Control:d75	820.60	453.60	1.81	0
58	Sullu:Control:d60	Sullu:Stress:d45	820.60	1109.00	0.74	0
59	Sullu:Control:d60	Sullu:Stress:d60	820.60	1056.80	0.78	0
60	Sullu:Control:d60	Sullu:Stress:d75	820.60	794.20	1.03	0.3497
61	Sullu:Control:d75	Sullu:Stress:d45	453.60	1109.00	0.41	0
62	Sullu:Control:d75	Sullu:Stress:d60	453.60	1056.80	0.43	0
63	Sullu:Control:d75	Sullu:Stress:d75	453.60	794.20	0.57	0
64	Sullu:Stress:d45	Sullu:Stress:d60	1109.00	1056.80	1.05	0.057

65	Sullu:Stress:d45	Sullu:Stress:d75	1109.00	794.20	1.40	0
66	Sullu:Stress:d60	Sullu:Stress:d75	1056.80	794.20	1.33	0
SHIKIMIC ACID						
1	Ccompis:Control:d45	Ccompis:Control:d60	538.75	536.80	1.00	0.9478
2	Ccompis:Control:d45	Ccompis:Control:d75	538.75	560.80	0.96	0.4607
3	Ccompis:Control:d45	Ccompis:Stress:d45	538.75	556.33	0.97	0.5406
4	Ccompis:Control:d45	Ccompis:Stress:d60	538.75	691.00	0.78	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	538.75	484.80	1.11	0.075
6	Ccompis:Control:d45	Sullu:Control:d45	538.75	812.50	0.66	0
7	Ccompis:Control:d45	Sullu:Control:d60	538.75	766.80	0.70	0
8	Ccompis:Control:d45	Sullu:Control:d75	538.75	840.00	0.64	0
9	Ccompis:Control:d45	Sullu:Stress:d45	538.75	717.00	0.75	0
10	Ccompis:Control:d45	Sullu:Stress:d60	538.75	808.80	0.67	0
11	Ccompis:Control:d45	Sullu:Stress:d75	538.75	803.40	0.67	0
12	Ccompis:Control:d60	Ccompis:Control:d75	536.80	560.80	0.96	0.3948
13	Ccompis:Control:d60	Ccompis:Stress:d45	536.80	556.33	0.96	0.469
14	Ccompis:Control:d60	Ccompis:Stress:d60	536.80	691.00	0.78	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	536.80	484.80	1.11	0.069
16	Ccompis:Control:d60	Sullu:Control:d45	536.80	812.50	0.66	0
17	Ccompis:Control:d60	Sullu:Control:d60	536.80	766.80	0.70	0
18	Ccompis:Control:d60	Sullu:Control:d75	536.80	840.00	0.64	0
19	Ccompis:Control:d60	Sullu:Stress:d45	536.80	717.00	0.75	0
20	Ccompis:Control:d60	Sullu:Stress:d60	536.80	808.80	0.66	0
21	Ccompis:Control:d60	Sullu:Stress:d75	536.80	803.40	0.67	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	560.80	556.33	1.01	0.8682
23	Ccompis:Control:d75	Ccompis:Stress:d60	560.80	691.00	0.81	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	560.80	484.80	1.16	**0.0091**
25	Ccompis:Control:d75	Sullu:Control:d45	560.80	812.50	0.69	0
26	Ccompis:Control:d75	Sullu:Control:d60	560.80	766.80	0.73	0
27	Ccompis:Control:d75	Sullu:Control:d75	560.80	840.00	0.67	0
28	Ccompis:Control:d75	Sullu:Stress:d45	560.80	717.00	0.78	0
29	Ccompis:Control:d75	Sullu:Stress:d60	560.80	808.80	0.69	0
30	Ccompis:Control:d75	Sullu:Stress:d75	560.80	803.40	0.70	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	556.33	691.00	0.81	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	556.33	484.80	1.15	0.0102
33	Ccompis:Stress:d45	Sullu:Control:d45	556.33	812.50	0.68	0
34	Ccompis:Stress:d45	Sullu:Control:d60	556.33	766.80	0.73	0
35	Ccompis:Stress:d45	Sullu:Control:d75	556.33	840.00	0.66	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	556.33	717.00	0.78	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	556.33	808.80	0.69	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	556.33	803.40	0.69	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	691.00	484.80	1.43	0
40	Ccompis:Stress:d60	Sullu:Control:d45	691.00	812.50	0.85	**0.0002**
41	Ccompis:Stress:d60	Sullu:Control:d60	691.00	766.80	0.90	**0.0093**
42	Ccompis:Stress:d60	Sullu:Control:d75	691.00	840.00	0.82	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	691.00	717.00	0.96	0.3362
44	Ccompis:Stress:d60	Sullu:Stress:d60	691.00	808.80	0.85	**0.0001**
45	Ccompis:Stress:d60	Sullu:Stress:d75	691.00	803.40	0.86	**0.0002**
46	Ccompis:Stress:d75	Sullu:Control:d45	484.80	812.50	0.60	0
47	Ccompis:Stress:d75	Sullu:Control:d60	484.80	766.80	0.63	0
48	Ccompis:Stress:d75	Sullu:Control:d75	484.80	840.00	0.58	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	484.80	717.00	0.68	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	484.80	808.80	0.60	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	484.80	803.40	0.60	0
52	Sullu:Control:d45	Sullu:Control:d60	812.50	766.80	1.06	0.1298
53	Sullu:Control:d45	Sullu:Control:d75	812.50	840.00	0.97	0.3583
54	Sullu:Control:d45	Sullu:Stress:d45	812.50	717.00	1.13	**0.0016**
55	Sullu:Control:d45	Sullu:Stress:d60	812.50	808.80	1.00	0.9012
56	Sullu:Control:d45	Sullu:Stress:d75	812.50	803.40	1.01	0.7602
57	Sullu:Control:d60	Sullu:Control:d75	766.80	840.00	0.91	0.0118
58	Sullu:Control:d60	Sullu:Stress:d45	766.80	717.00	1.07	0.0689
59	Sullu:Control:d60	Sullu:Stress:d60	766.80	808.80	0.95	0.1395
60	Sullu:Control:d60	Sullu:Stress:d75	766.80	803.40	0.95	0.1966
61	Sullu:Control:d75	Sullu:Stress:d45	840.00	717.00	1.17	0

62	Sullu:Control:d75	Sullu:Stress:d60	840.00	808.80	1.04	0.2699
63	Sullu:Control:d75	Sullu:Stress:d75	840.00	803.40	1.05	0.1966
64	Sullu:Stress:d45	Sullu:Stress:d60	717.00	808.80	0.89	**0.0012**
65	Sullu:Stress:d45	Sullu:Stress:d75	717.00	803.40	0.89	**0.0022**
66	Sullu:Stress:d60	Sullu:Stress:d75	808.80	803.40	1.01	0.8476

SORBOSE

1	Ccompis:Control:d45	Ccompis:Control:d60	2630.50	3642.00	0.72	0
2	Ccompis:Control:d45	Ccompis:Control:d75	2630.50	8013.80	0.33	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	2630.50	4062.00	0.65	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	2630.50	9024.20	0.29	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	2630.50	8886.20	0.30	0
6	Ccompis:Control:d45	Sullu:Control:d45	2630.50	5595.50	0.47	0
7	Ccompis:Control:d45	Sullu:Control:d60	2630.50	6033.60	0.44	0
8	Ccompis:Control:d45	Sullu:Control:d75	2630.50	6238.80	0.42	0
9	Ccompis:Control:d45	Sullu:Stress:d45	2630.50	5792.17	0.45	0
10	Ccompis:Control:d45	Sullu:Stress:d60	2630.50	7200.60	0.37	0
11	Ccompis:Control:d45	Sullu:Stress:d75	2630.50	5992.40	0.44	0
12	Ccompis:Control:d60	Ccompis:Control:d75	3642.00	8013.80	0.45	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	3642.00	4062.00	0.90	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	3642.00	9024.20	0.40	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	3642.00	8886.20	0.41	0
16	Ccompis:Control:d60	Sullu:Control:d45	3642.00	5595.50	0.65	0
17	Ccompis:Control:d60	Sullu:Control:d60	3642.00	6033.60	0.60	0
18	Ccompis:Control:d60	Sullu:Control:d75	3642.00	6238.80	0.58	0
19	Ccompis:Control:d60	Sullu:Stress:d45	3642.00	5792.17	0.63	0
20	Ccompis:Control:d60	Sullu:Stress:d60	3642.00	7200.60	0.51	0
21	Ccompis:Control:d60	Sullu:Stress:d75	3642.00	5992.40	0.61	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	8013.80	4062.00	1.97	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	8013.80	9024.20	0.89	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	8013.80	8886.20	0.90	0
25	Ccompis:Control:d75	Sullu:Control:d45	8013.80	5595.50	1.43	0
26	Ccompis:Control:d75	Sullu:Control:d60	8013.80	6033.60	1.33	0
27	Ccompis:Control:d75	Sullu:Control:d75	8013.80	6238.80	1.28	0
28	Ccompis:Control:d75	Sullu:Stress:d45	8013.80	5792.17	1.38	0
29	Ccompis:Control:d75	Sullu:Stress:d60	8013.80	7200.60	1.11	0
30	Ccompis:Control:d75	Sullu:Stress:d75	8013.80	5992.40	1.34	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	4062.00	9024.20	0.45	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	4062.00	8886.20	0.46	0
33	Ccompis:Stress:d45	Sullu:Control:d45	4062.00	5595.50	0.73	0
34	Ccompis:Stress:d45	Sullu:Control:d60	4062.00	6033.60	0.67	0
35	Ccompis:Stress:d45	Sullu:Control:d75	4062.00	6238.80	0.65	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	4062.00	5792.17	0.70	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	4062.00	7200.60	0.56	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	4062.00	5992.40	0.68	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	9024.20	8886.20	1.02	0
40	Ccompis:Stress:d60	Sullu:Control:d45	9024.20	5595.50	1.61	0
41	Ccompis:Stress:d60	Sullu:Control:d60	9024.20	6033.60	1.50	0
42	Ccompis:Stress:d60	Sullu:Control:d75	9024.20	6238.80	1.45	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	9024.20	5792.17	1.56	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	9024.20	7200.60	1.25	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	9024.20	5992.40	1.51	0
46	Ccompis:Stress:d75	Sullu:Control:d45	8886.20	5595.50	1.59	0
47	Ccompis:Stress:d75	Sullu:Control:d60	8886.20	6033.60	1.47	0
48	Ccompis:Stress:d75	Sullu:Control:d75	8886.20	6238.80	1.42	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	8886.20	5792.17	1.53	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	8886.20	7200.60	1.23	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	8886.20	5992.40	1.48	0
52	Sullu:Control:d45	Sullu:Control:d60	5595.50	6033.60	0.93	0
53	Sullu:Control:d45	Sullu:Control:d75	5595.50	6238.80	0.90	0
54	Sullu:Control:d45	Sullu:Stress:d45	5595.50	5792.17	0.97	0
55	Sullu:Control:d45	Sullu:Stress:d60	5595.50	7200.60	0.78	0
56	Sullu:Control:d45	Sullu:Stress:d75	5595.50	5992.40	0.93	0
57	Sullu:Control:d60	Sullu:Control:d75	6033.60	6238.80	0.97	0
58	Sullu:Control:d60	Sullu:Stress:d45	6033.60	5792.17	1.04	0

59	Sullu:Control:d60	Sullu:Stress:d60	6033.60	7200.60	0.84	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	6033.60	5992.40	1.01	0.147
61	Sullu:Control:d75	Sullu:Stress:d45	6238.80	5792.17	1.08	**0**
62	Sullu:Control:d75	Sullu:Stress:d60	6238.80	7200.60	0.87	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	6238.80	5992.40	1.04	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	5792.17	7200.60	0.80	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	5792.17	5992.40	0.97	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	7200.60	5992.40	1.20	**0**

SUCCINIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	1532.50	1703.00	0.90	**0**
2	Ccompis:Control:d45	Ccompis:Control:d75	1532.50	2207.40	0.69	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	1532.50	1235.33	1.24	**0**
4	Ccompis:Control:d45	Ccompis:Stress:d60	1532.50	986.00	1.55	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	1532.50	924.60	1.66	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	1532.50	1042.00	1.47	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	1532.50	868.80	1.76	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	1532.50	815.60	1.88	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	1532.50	1068.33	1.43	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	1532.50	731.00	2.10	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	1532.50	1133.60	1.35	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	1703.00	2207.40	0.77	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	1703.00	1235.33	1.38	**0**
14	Ccompis:Control:d60	Ccompis:Stress:d60	1703.00	986.00	1.73	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	1703.00	924.60	1.84	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	1703.00	1042.00	1.63	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	1703.00	868.80	1.96	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	1703.00	815.60	2.09	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	1703.00	1068.33	1.59	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	1703.00	731.00	2.33	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	1703.00	1133.60	1.50	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	2207.40	1235.33	1.79	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	2207.40	986.00	2.24	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	2207.40	924.60	2.39	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	2207.40	1042.00	2.12	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	2207.40	868.80	2.54	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	2207.40	815.60	2.71	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	2207.40	1068.33	2.07	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	2207.40	731.00	3.02	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	2207.40	1133.60	1.95	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	1235.33	986.00	1.25	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	1235.33	924.60	1.34	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	1235.33	1042.00	1.19	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	1235.33	868.80	1.42	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	1235.33	815.60	1.51	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	1235.33	1068.33	1.16	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	1235.33	731.00	1.69	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	1235.33	1133.60	1.09	**0.0004**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	986.00	924.60	1.07	0.0329
40	Ccompis:Stress:d60	Sullu:Control:d45	986.00	1042.00	0.95	0.065
41	Ccompis:Stress:d60	Sullu:Control:d60	986.00	868.80	1.13	**0.0001**
42	Ccompis:Stress:d60	Sullu:Control:d75	986.00	815.60	1.21	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	986.00	1068.33	0.92	**0.0035**
44	Ccompis:Stress:d60	Sullu:Stress:d60	986.00	731.00	1.35	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	986.00	1133.60	0.87	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	924.60	1042.00	0.89	**0.0002**
47	Ccompis:Stress:d75	Sullu:Control:d60	924.60	868.80	1.06	0.0516
48	Ccompis:Stress:d75	Sullu:Control:d75	924.60	815.60	1.13	**0.0003**
49	Ccompis:Stress:d75	Sullu:Stress:d45	924.60	1068.33	0.87	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	924.60	731.00	1.26	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	924.60	1133.60	0.82	**0**
52	Sullu:Control:d45	Sullu:Control:d60	1042.00	868.80	1.20	**0**
53	Sullu:Control:d45	Sullu:Control:d75	1042.00	815.60	1.28	**0**
54	Sullu:Control:d45	Sullu:Stress:d45	1042.00	1068.33	0.98	0.3606
55	Sullu:Control:d45	Sullu:Stress:d60	1042.00	731.00	1.43	**0**

56	Sullu:Control:d45	Sullu:Stress:d75	1042.00	1133.60	0.92	**0.0033**
57	Sullu:Control:d60	Sullu:Control:d75	868.80	815.60	1.07	0.063
58	Sullu:Control:d60	Sullu:Stress:d45	868.80	1068.33	0.81	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	868.80	731.00	1.19	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	868.80	1133.60	0.77	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	815.60	1068.33	0.76	**0**
62	Sullu:Control:d75	Sullu:Stress:d60	815.60	731.00	1.12	**0.004**
63	Sullu:Control:d75	Sullu:Stress:d75	815.60	1133.60	0.72	**0**
64	Sullu:Stress:d45	Sullu:Stress:d60	1068.33	731.00	1.46	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	1068.33	1133.60	0.94	0.0185
66	Sullu:Stress:d60	Sullu:Stress:d75	731.00	1133.60	0.64	**0**

SUCROSE

1	Ccompis:Control:d45	Ccompis:Control:d60	444.75	2174.80	0.20	**0**
2	Ccompis:Control:d45	Ccompis:Control:d75	444.75	2776.40	0.16	**0**
3	Ccompis:Control:d45	Ccompis:Stress:d45	444.75	836.50	0.53	**0**
4	Ccompis:Control:d45	Ccompis:Stress:d60	444.75	6937.40	0.06	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	444.75	6522.00	0.07	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	444.75	21239.50	0.02	**0**
7	Ccompis:Control:d45	Sullu:Control:d60	444.75	21703.80	0.02	**0**
8	Ccompis:Control:d45	Sullu:Control:d75	444.75	26543.60	0.02	**0**
9	Ccompis:Control:d45	Sullu:Stress:d45	444.75	20844.50	0.02	**0**
10	Ccompis:Control:d45	Sullu:Stress:d60	444.75	41954.60	0.01	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	444.75	41715.40	0.01	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	2174.80	2776.40	0.78	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	2174.80	836.50	2.60	**0**
14	Ccompis:Control:d60	Ccompis:Stress:d60	2174.80	6937.40	0.31	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	2174.80	6522.00	0.33	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	2174.80	21239.50	0.10	**0**
17	Ccompis:Control:d60	Sullu:Control:d60	2174.80	21703.80	0.10	**0**
18	Ccompis:Control:d60	Sullu:Control:d75	2174.80	26543.60	0.08	**0**
19	Ccompis:Control:d60	Sullu:Stress:d45	2174.80	20844.50	0.10	**0**
20	Ccompis:Control:d60	Sullu:Stress:d60	2174.80	41954.60	0.05	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	2174.80	41715.40	0.05	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	2776.40	836.50	3.32	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	2776.40	6937.40	0.40	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	2776.40	6522.00	0.43	**0**
25	Ccompis:Control:d75	Sullu:Control:d45	2776.40	21239.50	0.13	**0**
26	Ccompis:Control:d75	Sullu:Control:d60	2776.40	21703.80	0.13	**0**
27	Ccompis:Control:d75	Sullu:Control:d75	2776.40	26543.60	0.10	**0**
28	Ccompis:Control:d75	Sullu:Stress:d45	2776.40	20844.50	0.13	**0**
29	Ccompis:Control:d75	Sullu:Stress:d60	2776.40	41954.60	0.07	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	2776.40	41715.40	0.07	**0**
31	Ccompis:Stress:d45	Ccompis:Stress:d60	836.50	6937.40	0.12	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	836.50	6522.00	0.13	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	836.50	21239.50	0.04	**0**
34	Ccompis:Stress:d45	Sullu:Control:d60	836.50	21703.80	0.04	**0**
35	Ccompis:Stress:d45	Sullu:Control:d75	836.50	26543.60	0.03	**0**
36	Ccompis:Stress:d45	Sullu:Stress:d45	836.50	20844.50	0.04	**0**
37	Ccompis:Stress:d45	Sullu:Stress:d60	836.50	41954.60	0.02	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	836.50	41715.40	0.02	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	6937.40	6522.00	1.06	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	6937.40	21239.50	0.33	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	6937.40	21703.80	0.32	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	6937.40	26543.60	0.26	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	6937.40	20844.50	0.33	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	6937.40	41954.60	0.17	**0**
45	Ccompis:Stress:d60	Sullu:Stress:d75	6937.40	41715.40	0.17	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	6522.00	21239.50	0.31	**0**
47	Ccompis:Stress:d75	Sullu:Control:d60	6522.00	21703.80	0.30	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	6522.00	26543.60	0.25	**0**
49	Ccompis:Stress:d75	Sullu:Stress:d45	6522.00	20844.50	0.31	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	6522.00	41954.60	0.16	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	6522.00	41715.40	0.16	**0**
52	Sullu:Control:d45	Sullu:Control:d60	21239.50	21703.80	0.98	**0**

53	Sullu:Control:d45	Sullu:Control:d75	21239.50	26543.60	0.80	0
54	Sullu:Control:d45	Sullu:Stress:d45	21239.50	20844.50	1.02	0
55	Sullu:Control:d45	Sullu:Stress:d60	21239.50	41954.60	0.51	0
56	Sullu:Control:d45	Sullu:Stress:d75	21239.50	41715.40	0.51	0
57	Sullu:Control:d60	Sullu:Control:d75	21703.80	26543.60	0.82	0
58	Sullu:Control:d60	Sullu:Stress:d45	21703.80	20844.50	1.04	0
59	Sullu:Control:d60	Sullu:Stress:d60	21703.80	41954.60	0.52	0
60	Sullu:Control:d60	Sullu:Stress:d75	21703.80	41715.40	0.52	0
61	Sullu:Control:d75	Sullu:Stress:d45	26543.60	20844.50	1.27	0
62	Sullu:Control:d75	Sullu:Stress:d60	26543.60	41954.60	0.63	0
63	Sullu:Control:d75	Sullu:Stress:d75	26543.60	41715.40	0.64	0
64	Sullu:Stress:d45	Sullu:Stress:d60	20844.50	41954.60	0.50	0
65	Sullu:Stress:d45	Sullu:Stress:d75	20844.50	41715.40	0.50	0
66	Sullu:Stress:d60	Sullu:Stress:d75	41954.60	41715.40	1.01	0

THREONIC ACID

1	Ccompis:Control:d45	Ccompis:Control:d60	788.00	821.00	0.96	0.2712
2	Ccompis:Control:d45	Ccompis:Control:d75	788.00	1135.80	0.69	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	788.00	518.00	1.52	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	788.00	734.20	1.07	0.0758
5	Ccompis:Control:d45	Ccompis:Stress:d75	788.00	843.80	0.93	0.0659
6	Ccompis:Control:d45	Sullu:Control:d45	788.00	2556.00	0.31	0
7	Ccompis:Control:d45	Sullu:Control:d60	788.00	1673.80	0.47	0
8	Ccompis:Control:d45	Sullu:Control:d75	788.00	1445.00	0.55	0
9	Ccompis:Control:d45	Sullu:Stress:d45	788.00	2143.00	0.37	0
10	Ccompis:Control:d45	Sullu:Stress:d60	788.00	375.00	2.10	0
11	Ccompis:Control:d45	Sullu:Stress:d75	788.00	1367.00	0.58	0
12	Ccompis:Control:d60	Ccompis:Control:d75	821.00	1135.80	0.72	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	821.00	518.00	1.58	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	821.00	734.20	1.12	0.0032
15	Ccompis:Control:d60	Ccompis:Stress:d75	821.00	843.80	0.97	0.4187
16	Ccompis:Control:d60	Sullu:Control:d45	821.00	2556.00	0.32	0
17	Ccompis:Control:d60	Sullu:Control:d60	821.00	1673.80	0.49	0
18	Ccompis:Control:d60	Sullu:Control:d75	821.00	1445.00	0.57	0
19	Ccompis:Control:d60	Sullu:Stress:d45	821.00	2143.00	0.38	0
20	Ccompis:Control:d60	Sullu:Stress:d60	821.00	375.00	2.19	0
21	Ccompis:Control:d60	Sullu:Stress:d75	821.00	1367.00	0.60	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	1135.80	518.00	2.19	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	1135.80	734.20	1.55	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	1135.80	843.80	1.35	0
25	Ccompis:Control:d75	Sullu:Control:d45	1135.80	2556.00	0.44	0
26	Ccompis:Control:d75	Sullu:Control:d60	1135.80	1673.80	0.68	0
27	Ccompis:Control:d75	Sullu:Control:d75	1135.80	1445.00	0.79	0
28	Ccompis:Control:d75	Sullu:Stress:d45	1135.80	2143.00	0.53	0
29	Ccompis:Control:d75	Sullu:Stress:d60	1135.80	375.00	3.03	0
30	Ccompis:Control:d75	Sullu:Stress:d75	1135.80	1367.00	0.83	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	518.00	734.20	0.71	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	518.00	843.80	0.61	0
33	Ccompis:Stress:d45	Sullu:Control:d45	518.00	2556.00	0.20	0
34	Ccompis:Stress:d45	Sullu:Control:d60	518.00	1673.80	0.31	0
35	Ccompis:Stress:d45	Sullu:Control:d75	518.00	1445.00	0.36	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	518.00	2143.00	0.24	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	518.00	375.00	1.38	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	518.00	1367.00	0.38	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	734.20	843.80	0.87	0.0003
40	Ccompis:Stress:d60	Sullu:Control:d45	734.20	2556.00	0.29	0
41	Ccompis:Stress:d60	Sullu:Control:d60	734.20	1673.80	0.44	0
42	Ccompis:Stress:d60	Sullu:Control:d75	734.20	1445.00	0.51	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	734.20	2143.00	0.34	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	734.20	375.00	1.96	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	734.20	1367.00	0.54	0
46	Ccompis:Stress:d75	Sullu:Control:d45	843.80	2556.00	0.33	0
47	Ccompis:Stress:d75	Sullu:Control:d60	843.80	1673.80	0.50	0
48	Ccompis:Stress:d75	Sullu:Control:d75	843.80	1445.00	0.58	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	843.80	2143.00	0.39	0

50	Ccompis:Stress:d75	Sullu:Stress:d60	843.80	375.00	2.25	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	843.80	1367.00	0.62	**0**
52	Sullu:Control:d45	Sullu:Control:d60	2556.00	1673.80	1.53	**0**
53	Sullu:Control:d45	Sullu:Control:d75	2556.00	1445.00	1.77	**0**
54	Sullu:Control:d45	Sullu:Stress:d45	2556.00	2143.00	1.19	**0**
55	Sullu:Control:d45	Sullu:Stress:d60	2556.00	375.00	6.82	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	2556.00	1367.00	1.87	**0**
57	Sullu:Control:d60	Sullu:Control:d75	1673.80	1445.00	1.16	**0**
58	Sullu:Control:d60	Sullu:Stress:d45	1673.80	2143.00	0.78	**0**
59	Sullu:Control:d60	Sullu:Stress:d60	1673.80	375.00	4.46	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	1673.80	1367.00	1.22	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	1445.00	2143.00	0.67	**0**
62	Sullu:Control:d75	Sullu:Stress:d60	1445.00	375.00	3.85	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	1445.00	1367.00	1.06	**0.0075**
64	Sullu:Stress:d45	Sullu:Stress:d60	2143.00	375.00	5.71	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	2143.00	1367.00	1.57	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	375.00	1367.00	0.27	**0**
VALINE						
1	Ccompis:Control:d45	Ccompis:Control:d60	192.00	196.00	0.98	0.8932
2	Ccompis:Control:d45	Ccompis:Control:d75	192.00	70.80	2.71	**0.0002**
3	Ccompis:Control:d45	Ccompis:Stress:d45	192.00	214.17	0.90	0.441
4	Ccompis:Control:d45	Ccompis:Stress:d60	192.00	824.80	0.23	**0**
5	Ccompis:Control:d45	Ccompis:Stress:d75	192.00	13.60	14.12	**0**
6	Ccompis:Control:d45	Sullu:Control:d45	192.00	195.75	0.98	0.905
7	Ccompis:Control:d45	Sullu:Control:d60	192.00	191.40	1.00	0.9839
8	Ccompis:Control:d45	Sullu:Control:d75	192.00	105.00	1.83	**0.0051**
9	Ccompis:Control:d45	Sullu:Stress:d45	192.00	167.50	1.15	0.3947
10	Ccompis:Control:d45	Sullu:Stress:d60	192.00	866.00	0.22	**0**
11	Ccompis:Control:d45	Sullu:Stress:d75	192.00	23.20	8.28	**0**
12	Ccompis:Control:d60	Ccompis:Control:d75	196.00	70.80	2.77	**0**
13	Ccompis:Control:d60	Ccompis:Stress:d45	196.00	214.17	0.92	0.5005
14	Ccompis:Control:d60	Ccompis:Stress:d60	196.00	824.80	0.24	**0**
15	Ccompis:Control:d60	Ccompis:Stress:d75	196.00	13.60	14.41	**0**
16	Ccompis:Control:d60	Sullu:Control:d45	196.00	195.75	1.00	0.9933
17	Ccompis:Control:d60	Sullu:Control:d60	196.00	191.40	1.02	0.87
18	Ccompis:Control:d60	Sullu:Control:d75	196.00	105.00	1.87	**0.0021**
19	Ccompis:Control:d60	Sullu:Stress:d45	196.00	167.50	1.17	0.2922
20	Ccompis:Control:d60	Sullu:Stress:d60	196.00	866.00	0.23	**0**
21	Ccompis:Control:d60	Sullu:Stress:d75	196.00	23.20	8.45	**0**
22	Ccompis:Control:d75	Ccompis:Stress:d45	70.80	214.17	0.33	**0**
23	Ccompis:Control:d75	Ccompis:Stress:d60	70.80	824.80	0.09	**0**
24	Ccompis:Control:d75	Ccompis:Stress:d75	70.80	13.60	5.21	0.0462
25	Ccompis:Control:d75	Sullu:Control:d45	70.80	195.75	0.36	**0.0001**
26	Ccompis:Control:d75	Sullu:Control:d60	70.80	191.40	0.37	**0.0001**
27	Ccompis:Control:d75	Sullu:Control:d75	70.80	105.00	0.67	0.2271
28	Ccompis:Control:d75	Sullu:Stress:d45	70.80	167.50	0.42	**0.0007**
29	Ccompis:Control:d75	Sullu:Stress:d60	70.80	866.00	0.08	**0**
30	Ccompis:Control:d75	Sullu:Stress:d75	70.80	23.20	3.05	0.0951
31	Ccompis:Stress:d45	Ccompis:Stress:d60	214.17	824.80	0.26	**0**
32	Ccompis:Stress:d45	Ccompis:Stress:d75	214.17	13.60	15.75	**0**
33	Ccompis:Stress:d45	Sullu:Control:d45	214.17	195.75	1.09	0.5217
34	Ccompis:Stress:d45	Sullu:Control:d60	214.17	191.40	1.12	0.3992
35	Ccompis:Stress:d45	Sullu:Control:d75	214.17	105.00	2.04	**0.0002**
36	Ccompis:Stress:d45	Sullu:Stress:d45	214.17	167.50	1.28	0.0736
37	Ccompis:Stress:d45	Sullu:Stress:d60	214.17	866.00	0.25	**0**
38	Ccompis:Stress:d45	Sullu:Stress:d75	214.17	23.20	9.23	**0**
39	Ccompis:Stress:d60	Ccompis:Stress:d75	824.80	13.60	60.65	**0**
40	Ccompis:Stress:d60	Sullu:Control:d45	824.80	195.75	4.21	**0**
41	Ccompis:Stress:d60	Sullu:Control:d60	824.80	191.40	4.31	**0**
42	Ccompis:Stress:d60	Sullu:Control:d75	824.80	105.00	7.86	**0**
43	Ccompis:Stress:d60	Sullu:Stress:d45	824.80	167.50	4.92	**0**
44	Ccompis:Stress:d60	Sullu:Stress:d60	824.80	866.00	0.95	0.147
45	Ccompis:Stress:d60	Sullu:Stress:d75	824.80	23.20	35.55	**0**
46	Ccompis:Stress:d75	Sullu:Control:d45	13.60	195.75	0.07	**0**

47	Ccompis:Stress:d75	Sullu:Control:d60	13.60	191.40	0.07	**0**
48	Ccompis:Stress:d75	Sullu:Control:d75	13.60	105.00	0.13	**0.002**
49	Ccompis:Stress:d75	Sullu:Stress:d45	13.60	167.50	0.08	**0**
50	Ccompis:Stress:d75	Sullu:Stress:d60	13.60	866.00	0.02	**0**
51	Ccompis:Stress:d75	Sullu:Stress:d75	13.60	23.20	0.59	0.7328
52	Sullu:Control:d45	Sullu:Control:d60	195.75	191.40	1.02	0.884
53	Sullu:Control:d45	Sullu:Control:d75	195.75	105.00	1.86	**0.0036**
54	Sullu:Control:d45	Sullu:Stress:d45	195.75	167.50	1.17	0.327
55	Sullu:Control:d45	Sullu:Stress:d60	195.75	866.00	0.23	**0**
56	Sullu:Control:d45	Sullu:Stress:d75	195.75	23.20	8.44	**0**
57	Sullu:Control:d60	Sullu:Control:d75	191.40	105.00	1.82	**0.0033**
58	Sullu:Control:d60	Sullu:Stress:d45	191.40	167.50	1.14	0.3763
59	Sullu:Control:d60	Sullu:Stress:d60	191.40	866.00	0.22	**0**
60	Sullu:Control:d60	Sullu:Stress:d75	191.40	23.20	8.25	**0**
61	Sullu:Control:d75	Sullu:Stress:d45	105.00	167.50	0.63	0.0238
62	Sullu:Control:d75	Sullu:Stress:d60	105.00	866.00	0.12	**0**
63	Sullu:Control:d75	Sullu:Stress:d75	105.00	23.20	4.53	**0.0052**
64	Sullu:Stress:d45	Sullu:Stress:d60	167.50	866.00	0.19	**0**
65	Sullu:Stress:d45	Sullu:Stress:d75	167.50	23.20	7.22	**0**
66	Sullu:Stress:d60	Sullu:Stress:d75	866.00	23.20	37.33	**0**

GALACTINOL

1	Ccompis:Control:d45	Ccompis:Control:d60	1980	3242.6	0.61	0
2	Ccompis:Control:d45	Ccompis:Control:d75	1980	4074.8	0.49	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	1980	4715.4	0.42	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	1980	13859.2	0.14	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	1980	11561.2	0.17	0
6	Ccompis:Control:d45	Sullu:Control:d45	1980	3733.2	0.53	0
7	Ccompis:Control:d45	Sullu:Control:d60	1980	8755	0.23	0
8	Ccompis:Control:d45	Sullu:Control:d75	1980	6429.6	0.31	0
9	Ccompis:Control:d45	Sullu:Stress:d45	1980	12199.6	0.16	0
10	Ccompis:Control:d45	Sullu:Stress:d60	1980	12909.4	0.15	0
11	Ccompis:Control:d45	Sullu:Stress:d75	1980	10838.6	0.18	0
12	Ccompis:Control:d60	Ccompis:Control:d75	3242.6	4074.8	0.80	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	3242.6	4715.4	0.69	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	3242.6	13859.2	0.23	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	3242.6	11561.2	0.28	0
16	Ccompis:Control:d60	Sullu:Control:d45	3242.6	3733.2	0.87	0
17	Ccompis:Control:d60	Sullu:Control:d60	3242.6	8755	0.37	0
18	Ccompis:Control:d60	Sullu:Control:d75	3242.6	6429.6	0.50	0
19	Ccompis:Control:d60	Sullu:Stress:d45	3242.6	12199.6	0.27	0
20	Ccompis:Control:d60	Sullu:Stress:d60	3242.6	12909.4	0.25	0
21	Ccompis:Control:d60	Sullu:Stress:d75	3242.6	10838.6	0.30	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	4074.8	4715.4	0.86	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	4074.8	13859.2	0.29	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	4074.8	11561.2	0.35	0
25	Ccompis:Control:d75	Sullu:Control:d45	4074.8	3733.2	1.09	0
26	Ccompis:Control:d75	Sullu:Control:d60	4074.8	8755	0.47	0
27	Ccompis:Control:d75	Sullu:Control:d75	4074.8	6429.6	0.63	0
28	Ccompis:Control:d75	Sullu:Stress:d45	4074.8	12199.6	0.33	0
29	Ccompis:Control:d75	Sullu:Stress:d60	4074.8	12909.4	0.32	0
30	Ccompis:Control:d75	Sullu:Stress:d75	4074.8	10838.6	0.38	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	4715.4	13859.2	0.34	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	4715.4	11561.2	0.41	0
33	Ccompis:Stress:d45	Sullu:Control:d45	4715.4	3733.2	1.26	0
34	Ccompis:Stress:d45	Sullu:Control:d60	4715.4	8755	0.54	0
35	Ccompis:Stress:d45	Sullu:Control:d75	4715.4	6429.6	0.73	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	4715.4	12199.6	0.39	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	4715.4	12909.4	0.37	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	4715.4	10838.6	0.44	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	13859.2	11561.2	1.20	0
40	Ccompis:Stress:d60	Sullu:Control:d45	13859.2	3733.2	3.71	0
41	Ccompis:Stress:d60	Sullu:Control:d60	13859.2	8755	1.58	0
42	Ccompis:Stress:d60	Sullu:Control:d75	13859.2	6429.6	2.16	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	13859.2	12199.6	1.14	0

44	Ccompis:Stress:d60	Sullu:Stress:d60	13859.2	12909.4	1.07	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	13859.2	10838.6	1.28	0
46	Ccompis:Stress:d75	Sullu:Control:d45	11561.2	3733.2	3.10	0
47	Ccompis:Stress:d75	Sullu:Control:d60	11561.2	8755	1.32	0
48	Ccompis:Stress:d75	Sullu:Control:d75	11561.2	6429.6	1.80	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	11561.2	12199.6	0.95	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	11561.2	12909.4	0.90	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	11561.2	10838.6	1.07	0
52	Sullu:Control:d45	Sullu:Control:d60	3733.2	8755	0.43	0
53	Sullu:Control:d45	Sullu:Control:d75	3733.2	6429.6	0.58	0
54	Sullu:Control:d45	Sullu:Stress:d45	3733.2	12199.6	0.31	0
55	Sullu:Control:d45	Sullu:Stress:d60	3733.2	12909.4	0.29	0
56	Sullu:Control:d45	Sullu:Stress:d75	3733.2	10838.6	0.34	0
57	Sullu:Control:d60	Sullu:Control:d75	8755	6429.6	1.36	0
58	Sullu:Control:d60	Sullu:Stress:d45	8755	12199.6	0.72	0
59	Sullu:Control:d60	Sullu:Stress:d60	8755	12909.4	0.68	0
60	Sullu:Control:d60	Sullu:Stress:d75	8755	10838.6	0.81	0
61	Sullu:Control:d75	Sullu:Stress:d45	6429.6	12199.6	0.53	0
62	Sullu:Control:d75	Sullu:Stress:d60	6429.6	12909.4	0.50	0
63	Sullu:Control:d75	Sullu:Stress:d75	6429.6	10838.6	0.59	0
64	Sullu:Stress:d45	Sullu:Stress:d60	12199.6	12909.4	0.95	0
65	Sullu:Stress:d45	Sullu:Stress:d75	12199.6	10838.6	1.13	0
66	Sullu:Stress:d60	Sullu:Stress:d75	12909.4	10838.6	1.19	0

GLYCEROL

1	Ccompis:Control:d45	Ccompis:Control:d60	1285.2	1054.4	1.22	0
2	Ccompis:Control:d45	Ccompis:Control:d75	1285.2	1624	0.79	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	1285.2	1513.6	0.85	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	1285.2	1628.4	0.79	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	1285.2	1978	0.65	0
6	Ccompis:Control:d45	Sullu:Control:d45	1285.2	4104.2	0.31	0
7	Ccompis:Control:d45	Sullu:Control:d60	1285.2	4153.4	0.31	0
8	Ccompis:Control:d45	Sullu:Control:d75	1285.2	3939.8	0.33	0
9	Ccompis:Control:d45	Sullu:Stress:d45	1285.2	4974	0.26	0
10	Ccompis:Control:d45	Sullu:Stress:d60	1285.2	2871	0.45	0
11	Ccompis:Control:d45	Sullu:Stress:d75	1285.2	4679.8	0.27	0
12	Ccompis:Control:d60	Ccompis:Control:d75	1054.4	1624	0.65	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	1054.4	1513.6	0.70	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	1054.4	1628.4	0.65	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	1054.4	1978	0.53	0
16	Ccompis:Control:d60	Sullu:Control:d45	1054.4	4104.2	0.26	0
17	Ccompis:Control:d60	Sullu:Control:d60	1054.4	4153.4	0.25	0
18	Ccompis:Control:d60	Sullu:Control:d75	1054.4	3939.8	0.27	0
19	Ccompis:Control:d60	Sullu:Stress:d45	1054.4	4974	0.21	0
20	Ccompis:Control:d60	Sullu:Stress:d60	1054.4	2871	0.37	0
21	Ccompis:Control:d60	Sullu:Stress:d75	1054.4	4679.8	0.23	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	1624	1513.6	1.07	0.0003
23	Ccompis:Control:d75	Ccompis:Stress:d60	1624	1628.4	1.00	0.8756
24	Ccompis:Control:d75	Ccompis:Stress:d75	1624	1978	0.82	0
25	Ccompis:Control:d75	Sullu:Control:d45	1624	4104.2	0.40	0
26	Ccompis:Control:d75	Sullu:Control:d60	1624	4153.4	0.39	0
27	Ccompis:Control:d75	Sullu:Control:d75	1624	3939.8	0.41	0
28	Ccompis:Control:d75	Sullu:Stress:d45	1624	4974	0.33	0
29	Ccompis:Control:d75	Sullu:Stress:d60	1624	2871	0.57	0
30	Ccompis:Control:d75	Sullu:Stress:d75	1624	4679.8	0.35	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	1513.6	1628.4	0.93	0.0002
32	Ccompis:Stress:d45	Ccompis:Stress:d75	1513.6	1978	0.77	0
33	Ccompis:Stress:d45	Sullu:Control:d45	1513.6	4104.2	0.37	0
34	Ccompis:Stress:d45	Sullu:Control:d60	1513.6	4153.4	0.36	0
35	Ccompis:Stress:d45	Sullu:Control:d75	1513.6	3939.8	0.38	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	1513.6	4974	0.30	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	1513.6	2871	0.53	0
38	Ccompis:Stress:d45	Sullu:Stress:d75	1513.6	4679.8	0.32	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	1628.4	1978	0.82	0
40	Ccompis:Stress:d60	Sullu:Control:d45	1628.4	4104.2	0.40	0

41	Ccompis:Stress:d60	Sullu:Control:d60	1628.4	4153.4	0.39	0
42	Ccompis:Stress:d60	Sullu:Control:d75	1628.4	3939.8	0.41	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	1628.4	4974	0.33	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	1628.4	2871	0.57	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	1628.4	4679.8	0.35	0
46	Ccompis:Stress:d75	Sullu:Control:d45	1978	4104.2	0.48	0
47	Ccompis:Stress:d75	Sullu:Control:d60	1978	4153.4	0.48	0
48	Ccompis:Stress:d75	Sullu:Control:d75	1978	3939.8	0.50	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	1978	4974	0.40	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	1978	2871	0.69	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	1978	4679.8	0.42	0
52	Sullu:Control:d45	Sullu:Control:d60	4104.2	4153.4	0.99	0.0848
53	Sullu:Control:d45	Sullu:Control:d75	4104.2	3939.8	1.04	0
54	Sullu:Control:d45	Sullu:Stress:d45	4104.2	4974	0.83	0
55	Sullu:Control:d45	Sullu:Stress:d60	4104.2	2871	1.43	0
56	Sullu:Control:d45	Sullu:Stress:d75	4104.2	4679.8	0.88	0
57	Sullu:Control:d60	Sullu:Control:d75	4153.4	3939.8	1.05	0
58	Sullu:Control:d60	Sullu:Stress:d45	4153.4	4974	0.84	0
59	Sullu:Control:d60	Sullu:Stress:d60	4153.4	2871	1.45	0
60	Sullu:Control:d60	Sullu:Stress:d75	4153.4	4679.8	0.89	0
61	Sullu:Control:d75	Sullu:Stress:d45	3939.8	4974	0.79	0
62	Sullu:Control:d75	Sullu:Stress:d60	3939.8	2871	1.37	0
63	Sullu:Control:d75	Sullu:Stress:d75	3939.8	4679.8	0.84	0
64	Sullu:Stress:d45	Sullu:Stress:d60	4974	2871	1.73	0
65	Sullu:Stress:d45	Sullu:Stress:d75	4974	4679.8	1.06	0
66	Sullu:Stress:d60	Sullu:Stress:d75	2871	4679.8	0.61	0

INOSITOL

1	Ccompis:Control:d45	Ccompis:Control:d60	9731.8	7379.4	1.32	0
2	Ccompis:Control:d45	Ccompis:Control:d75	9731.8	11807.2	0.82	0
3	Ccompis:Control:d45	Ccompis:Stress:d45	9731.8	8818	1.10	0
4	Ccompis:Control:d45	Ccompis:Stress:d60	9731.8	15675.6	0.62	0
5	Ccompis:Control:d45	Ccompis:Stress:d75	9731.8	11849	0.82	0
6	Ccompis:Control:d45	Sullu:Control:d45	9731.8	11153.4	0.87	0
7	Ccompis:Control:d45	Sullu:Control:d60	9731.8	7668.4	1.27	0
8	Ccompis:Control:d45	Sullu:Control:d75	9731.8	10421.2	0.93	0
9	Ccompis:Control:d45	Sullu:Stress:d45	9731.8	12803.4	0.76	0
10	Ccompis:Control:d45	Sullu:Stress:d60	9731.8	22550.6	0.43	0
11	Ccompis:Control:d45	Sullu:Stress:d75	9731.8	10404.2	0.94	0
12	Ccompis:Control:d60	Ccompis:Control:d75	7379.4	11807.2	0.62	0
13	Ccompis:Control:d60	Ccompis:Stress:d45	7379.4	8818	0.84	0
14	Ccompis:Control:d60	Ccompis:Stress:d60	7379.4	15675.6	0.47	0
15	Ccompis:Control:d60	Ccompis:Stress:d75	7379.4	11849	0.62	0
16	Ccompis:Control:d60	Sullu:Control:d45	7379.4	11153.4	0.66	0
17	Ccompis:Control:d60	Sullu:Control:d60	7379.4	7668.4	0.96	0
18	Ccompis:Control:d60	Sullu:Control:d75	7379.4	10421.2	0.71	0
19	Ccompis:Control:d60	Sullu:Stress:d45	7379.4	12803.4	0.58	0
20	Ccompis:Control:d60	Sullu:Stress:d60	7379.4	22550.6	0.33	0
21	Ccompis:Control:d60	Sullu:Stress:d75	7379.4	10404.2	0.71	0
22	Ccompis:Control:d75	Ccompis:Stress:d45	11807.2	8818	1.34	0
23	Ccompis:Control:d75	Ccompis:Stress:d60	11807.2	15675.6	0.75	0
24	Ccompis:Control:d75	Ccompis:Stress:d75	11807.2	11849	1.00	0.1414
25	Ccompis:Control:d75	Sullu:Control:d45	11807.2	11153.4	1.06	0
26	Ccompis:Control:d75	Sullu:Control:d60	11807.2	7668.4	1.54	0
27	Ccompis:Control:d75	Sullu:Control:d75	11807.2	10421.2	1.13	0
28	Ccompis:Control:d75	Sullu:Stress:d45	11807.2	12803.4	0.92	0
29	Ccompis:Control:d75	Sullu:Stress:d60	11807.2	22550.6	0.52	0
30	Ccompis:Control:d75	Sullu:Stress:d75	11807.2	10404.2	1.13	0
31	Ccompis:Stress:d45	Ccompis:Stress:d60	8818	15675.6	0.56	0
32	Ccompis:Stress:d45	Ccompis:Stress:d75	8818	11849	0.74	0
33	Ccompis:Stress:d45	Sullu:Control:d45	8818	11153.4	0.79	0
34	Ccompis:Stress:d45	Sullu:Control:d60	8818	7668.4	1.15	0
35	Ccompis:Stress:d45	Sullu:Control:d75	8818	10421.2	0.85	0
36	Ccompis:Stress:d45	Sullu:Stress:d45	8818	12803.4	0.69	0
37	Ccompis:Stress:d45	Sullu:Stress:d60	8818	22550.6	0.39	0

38	Ccompis:Stress:d45	Sullu:Stress:d75	8818	10404.2	0.85	0
39	Ccompis:Stress:d60	Ccompis:Stress:d75	15675.6	11849	1.32	0
40	Ccompis:Stress:d60	Sullu:Control:d45	15675.6	11153.4	1.41	0
41	Ccompis:Stress:d60	Sullu:Control:d60	15675.6	7668.4	2.04	0
42	Ccompis:Stress:d60	Sullu:Control:d75	15675.6	10421.2	1.50	0
43	Ccompis:Stress:d60	Sullu:Stress:d45	15675.6	12803.4	1.22	0
44	Ccompis:Stress:d60	Sullu:Stress:d60	15675.6	22550.6	0.70	0
45	Ccompis:Stress:d60	Sullu:Stress:d75	15675.6	10404.2	1.51	0
46	Ccompis:Stress:d75	Sullu:Control:d45	11849	11153.4	1.06	0
47	Ccompis:Stress:d75	Sullu:Control:d60	11849	7668.4	1.55	0
48	Ccompis:Stress:d75	Sullu:Control:d75	11849	10421.2	1.14	0
49	Ccompis:Stress:d75	Sullu:Stress:d45	11849	12803.4	0.93	0
50	Ccompis:Stress:d75	Sullu:Stress:d60	11849	22550.6	0.53	0
51	Ccompis:Stress:d75	Sullu:Stress:d75	11849	10404.2	1.14	0
52	Sullu:Control:d45	Sullu:Control:d60	11153.4	7668.4	1.45	0
53	Sullu:Control:d45	Sullu:Control:d75	11153.4	10421.2	1.07	0
54	Sullu:Control:d45	Sullu:Stress:d45	11153.4	12803.4	0.87	0
55	Sullu:Control:d45	Sullu:Stress:d60	11153.4	22550.6	0.49	0
56	Sullu:Control:d45	Sullu:Stress:d75	11153.4	10404.2	1.07	0
57	Sullu:Control:d60	Sullu:Control:d75	7668.4	10421.2	0.74	0
58	Sullu:Control:d60	Sullu:Stress:d45	7668.4	12803.4	0.60	0
59	Sullu:Control:d60	Sullu:Stress:d60	7668.4	22550.6	0.34	0
60	Sullu:Control:d60	Sullu:Stress:d75	7668.4	10404.2	0.74	0
61	Sullu:Control:d75	Sullu:Stress:d45	10421.2	12803.4	0.81	0
62	Sullu:Control:d75	Sullu:Stress:d60	10421.2	22550.6	0.46	0
63	Sullu:Control:d75	Sullu:Stress:d75	10421.2	10404.2	1.00	0.5459
64	Sullu:Stress:d45	Sullu:Stress:d60	12803.4	22550.6	0.57	0
65	Sullu:Stress:d45	Sullu:Stress:d75	12803.4	10404.2	1.23	0
66	Sullu:Stress:d60	Sullu:Stress:d75	22550.6	10404.2	2.17	0

Metabolites	SUL control	SUL treated	NOJ control	NOJ treated
Organic Acids				
p-Hydroxybenzoic acid	116.48 ± 5	144.27 ± 41	79.5 ± 7	**62.18 ± 3**
a-Ketoglutaric acid	738.73 ± 84	702.27 ± 26	805.01 ± 3	711.25 ± 115
Ascorbic acid	227.86 ± 19	167.12 ± 11	156.85 ± 18	115.37 ± 5
Caffeic acid	869.31 ± 13	1814.42 ± 275*	**314.93 ± 8**	**356.37 ± 19**
Citric acid	10681.82 ± 316	17042.11 ± 598	**4717.04 ± 456**	**5172.92 ± 344**
Fumaric acid	367.14 ± 21	281.74 ± 30	**148.48 ± 13**	**112.86 ± 17**
Isocitric acid	2129.99 ± 59	2209.5 ± 57	n/d	**1384.99 ± 89***
Malic acid	19629.97 ± 54	18977.6 ± 231	**13013.81 ± 279**	**9043.37 ± 110***
Malonic acid	n/d	n/d	**90.63 ± 3**	**1119.94 ± 75***
Quinic acid	519.45 ± 8	414.65 ± 30	**832.44 ± 65**	**402.68 ± 34***
Succinic acid	1150.72 ± 50	1017.29 ± 31	944.04 ± 83	**741.53 ± 12**
Threonic acid	718.03 ± 39	585.93 ± 38	**397.17 ± 24**	**350.41 ± 17**
Total	37149.5 ± 344	43356.9 ± 705	21499.89 ± 546	19573.89 ± 399
Aminoacids				
GABA	391.77 ± 13	557.62 ± 26*	**532.92 ± 55**	**1098.36 ± 55***
Alanine	60.33 ± 3	60.16 ± 1	70.5 ± 9	74.47 ± 5
Aspartic acid	746.92 ± 39	n/d	n/d	n/d
Glutamic acid	271.89 ± 11	339.31 ± 87	**402.14 ± 10**	n/d
Glycine	393.45 ± 10	464.8 ± 29	**96.89 ± 0**	**89.92 ± 1**
Proline	n/d	295.11 ± 18*	n/d	**613.87 ± 41***
Pyroglutamic acid	132.3 ± 6	180.65 ± 3	**47.66 ± 6**	**78.66 ± 5**
Serine	226.46 ± 18	n/d	143.44 ± 7	n/d
Threonine	49.26 ± 3	57.47 ± 4	53.36 ± 3	51.69 ± 3
Total	2272.38 ± 48	1955.11 ± 97	1346.91 ± 57	2006.97 ± 69
Sugars				
Arabinose	310.46 ± 15	320.81 ± 12	115.82 ± 27	**82.03 ± 4**
Fructose	16968.11 ± 625	18171.99 ± 1681	13299.73 ± 46	**13169.81 ± 467**
Galactose	4059.98 ± 483	6584.96 ± 743	6724.75 ± 124	8264.23 ± 569*
Glucose	13993.77 ± 164	16203.22 ± 1574	12912.32 ± 387	15240.15 ± 463*
Glucose-6-phosphate	545.23 ± 51	236.14 ± 7*	599.53 ± 52	**396.26 ± 24***
Isomaltose	366.85 ± 26	603.22 ± 33*	238.25 ± 9	**1101.23 ± 48***
Maltose	538.22 ± 41	632.76 ± 6	818.94 ± 196	514.81 ± 72*
Melezitose	319.3 ± 39	170.21 ± 6*	253.17 ± 7	125.08 ± 24
Rhamnose	91.74 ± 2	107.26 ± 8	88.3 ± 2	91.7 ± 6
Ribose	405.46 ± 24	969.82 ± 7*	182.81 ± 4	**270.83 ± 13***
Sorbose	7961.99 ± 194	9463.28 ± 1360	4175.85 ± 1030	**3711.19 ± 21**
Sucrose	14282.18 ± 1506	14441.93 ± 633	14960.56 ± 1812	14624.88 ± 85
Trehalose	626.37 ± 45	303.72 ± 96*	624.97 ± 43	**688.56 ± 77**
Xylose	1539.92 ± 116	600.82 ± 53*	**710.56 ± 21**	714.75 ± 90
Total	62009.58 ± 1727	68810.13 ± 2850	55705.56 ± 2134	58995.51 ± 887
Sugar Alcohols				
Galactinol	2676.92 ± 112	4632.11 ± 321*	**4870.36 ± 174**	5322.47 ± 68
Glycerol	1016.59 ± 57	953.38 ± 90	**668.11 ± 37**	**664.06 ± 65**
Inositol	2646.34 ± 49	2484.54 ± 24	**3859.04 ± 199**	**3399.27 ± 39**
Total	6339.85 ± 135	8070.04 ± 334	9397.51 ± 267	9385.8 ± 102

Two comparisons were made. (i) Values obtained for control and treated samples for each genotype were compared with each other. Significant differences between the genotypes are marked in bold. (ii) Treated and control samples of each genotype were compared. Significant differences are indicated with an asterisk. nd, not determined. The table shows the average value plus the standard error. The leaves were harvested after drought stress application (25 d for NOJ, and 27 d for SUL). Data sets contained five replicates per sample (three samples) and were statistically analysed by t test and one-way ANOVA using the algorithm incorporated into Microsoft Excel 2002 (Microsoft Corporation, Seattle, WA, USA). Differences were determined to be statistically significant at $P < 0.05$. Principal Component Analysis (PCA) was performed using XLSTAT-Pro (v.7.5.3) program (Addinsoft, NY, USA).