

**Supplementary Material**

**Exogenous *Streptomyces* spp. enhance the drought resistance of naked oat (*Avena nuda*) seedlings by augmenting both the osmoregulation mechanisms and antioxidant capacities**

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**Supplementary materials:****Supplementary Table S1.** Principal component analysis of each index under different treatments of S5 condition

Indexes	Principal Component					
	PC1	PC2	PC3	PC4	PC5	PC6
Shoot dry weight	0.388	-0.676	0.456	0.314	-0.103	0.253
Root dry weight	0.477	-0.501	-0.384	0.560	0.182	0.147
Root/Shoot	-0.182	0.758	-.110	0.448	0.399	0.097
Shoot moisture content	-0.029	0.228	0.855	-0.357	0.114	0.214
Root moisture content	-0.058	0.430	-0.483	0.573	0.111	0.473
Root length	-0.945	-0.234	0.168	-0.082	0.041	-0.035
Root surface area	-0.887	-0.112	0.192	0.019	0.184	0.322
Root volume	-0.627	0.180	0.242	-0.203	0.636	0.125
Root average diameter	0.493	0.168	-0.434	-0.705	-0.108	0.154
Root tips	0.281	0.841	0.089	-0.324	0.300	0.028
Root forks	-0.917	-0.340	-0.031	0.000	-0.122	0.037
Root cross	-0.924	-0.291	0.002	0.061	-0.112	0.111
TTC	0.700	-0.601	0.058	-0.180	0.285	-0.005
Root Pro	0.902	-0.146	-0.281	0.044	-0.110	-0.155
Root soluble sugar	0.700	-0.081	0.019	0.243	0.653	0.006
Root CAT	0.457	-0.283	-0.373	-0.645	0.319	0.148
Root POD	0.577	-0.400	0.343	-0.105	-0.297	0.532
Leaf Pro	0.412	0.620	-0.110	-0.061	-0.497	0.427
Leaf soluble sugar	0.684	0.039	0.401	-0.009	0.252	0.038
Leaf CAT	0.710	0.020	0.574	0.347	0.060	-0.148
Leaf POD	0.367	0.645	0.442	0.218	-0.417	-0.176
Characteristic Value	8.118	3.986	2.691	2.415	1.994	1.090
Variance %	38.657	18.981	12.814	11.499	9.496	5.190
Accumulation %	38.657	57.638	70.452	81.951	91.447	96.637

**Supplementary Table S2.** Principal component analysis of each index under different treatments of S15 condition

Indexes	Principal Component				
	PC1	PC2	PC3	PC4	PC5
Shoot dry weight	0.940	-0.231	-0.038	0.106	0.105
Root dry weight	0.917	0.074	0.306	0.123	0.171
Root shoot ratio	-0.538	-0.013	0.595	-0.191	0.058
Shoot moisture content	-0.522	-0.156	-0.650	0.415	-0.316
Root moisture content	0.442	0.450	0.725	-0.027	0.086
Root length	0.512	0.751	-0.221	0.137	-0.086
Root surface area	0.747	0.582	-0.030	0.216	-0.071
Root volume	0.815	0.422	0.021	0.352	0.020
Root average diameter	-0.218	-0.837	0.358	0.138	0.137
Root tips	0.673	0.684	-0.021	-0.073	-0.101
Root forks	-0.192	0.767	0.151	0.389	-0.090
Root cross	-0.264	0.795	-0.320	0.044	0.408
TTC	0.706	-0.520	-0.395	0.082	0.104
Root Pro	0.887	-0.114	0.262	-0.109	-0.321
Root soluble sugar	0.756	0.017	0.029	-0.608	0.159
Root CAT	0.732	-0.134	-0.416	-0.384	0.149
Root POD	0.780	-0.138	-0.393	-0.312	0.209
Leaf Pro	0.820	-0.326	-0.024	-0.031	-0.439
Leaf soluble sugar	0.928	-0.220	0.132	0.045	-0.169
Leaf CAT	0.587	-0.512	0.171	0.518	-0.031
Leaf POD	0.408	-0.380	0.005	0.644	0.481
Characteristic Value	9.619	4.638	2.302	1.923	1.025
Variance %	45.806	22.085	10.960	9.158	4.882
Accumulation %	45.806	67.891	78.851	88.010	92.892