

Supplementary material

A novel method to determine trimethylantimony concentrations in plant tissue

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Table S1. Hoagland's solution composition

Compound	Concentration (μM)
$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	800
$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	400
KH_2PO_4	200
KNO_3	1000
$\text{Fe}(\text{III})\text{NaEDTA}$	20
H_3BO_3	20
$\text{MnSO}_4 \cdot \text{H}_2\text{O}$	4
$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	0.4
$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	0.4
$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.2
MES Buffer	2500

Table S2. Microwave procedure

Step duration (min)	Power (W)	Temperature ($^\circ\text{C}$)
5	300	120
10	700	200
30	450	200

Table S3. ICP-MS and HPLC-ICP-MS instrumental settings for Sb analysis

Parameter	ICP-MS	HPLC-ICP-MS
RF power	1550 W	1550 W
Carrier gas flow rate	1.03 L.min ⁻¹	0.9 L.min ⁻¹
Nebulizer pump	0.1 rps	0.3 rps
Spray chamber temperature	2 °C	2 °C
Makeup Gas	0 mL.min ⁻¹	0.26 mL.min ⁻¹
LENSES		
Extract 1	0	0
Extract 2	-200 V	-120 V
Omega bias	-100 V	-60 V
Omega lens	10 V	8.5 V
Cell entrance	-40 V	-30 V
Cell exit	-60 V	-50 V
Deflect	1 V	13.4 V
Plate bias	-60 V	-40 V
REACTION CELL		
He flow	4.3 mL.min ⁻¹	-
OctP bias	-18 V	-
OctP RF	190 V	-
Energy discrimination	3 V	-