



## Reference Sample – *Maple leaves A (Austria)*

(used in the 11th Needle/Leaf Interlaboratory Test as Sample 3)

Element concentration calculated on dry mass (105°C).

Element (N/L)	Unit	Mean	S <sub>R</sub>
<b>N</b> 180/45	mg/g	21.15	0.646
<b>S</b> 168/42	mg/g	2.63	0.165
<b>P</b> 191/48	mg/g	1.37	0.065
<b>Ca</b> 188/47	mg/g	22.12	1.548
<b>Mg</b> 187/47	mg/g	3.05	0.160
<b>K</b> 192/48	mg/g	9.18	0.492
<b>Zn</b> 152/38	µg/g	34.14	1.645
<b>Mn</b> 160/40	µg/g	97.51	5.869
<b>Fe</b> 160/40	µg/g	108.6	9.589
<b>Cu</b> 164/41	µg/g	7.39	0.685
<b>Pb</b> 48/12	µg/g	0.49	0.076
<b>Cd</b> 76/19	ng/g	62.89	8.241
<b>B</b> 87/22	µg/g	60.72	5.428
<b>C</b> 144/36	g/100g	48.30	1.514

N ..... Outlier free single values  
L ..... Number of laboratories without outliers type 2  
Mean ... Total mean value from all results without outliers  
S<sub>R</sub> ... Standard deviation from all outlier free results

$S_{mean} = \frac{S_R}{\sqrt{N}}$  Standard error of the mean

A homogeneity test was made with 250 mg sample material – the recommended minimum sample intake is therefore 250 mg.