

## Reference Material and Inter-laboratory Quality Control Materials Product Summary

March 2022

Version: 1

**Assigned Values:** Values provided have been generated from an Inter-Laboratory Proficiency Programme (ILPP). The reference material values provided in this summary are the mean of the results after the exclusion of statistical outliers. The Assigned Range provided for the Inter-laboratory QC Materials is the range of test values available for purchase. Each Reference and QC Material comes with a Data Summary Sheet.

**Missing Values and Available Tests:** For Reference Materials where property values do not meet the statistical criteria, the summary values have not been provided. For this reason, not all tests will be available for every Reference Material of the same matrix. However, if there are 3 or more data points available, an Assigned Value will be provided with the corresponding QC material.

**Sample Sizes:** Available sample sizes are shown for reference materials.

### Reference Materials: Plant Material

Product Type	Blueberry Leaves	Red Quinoa	Celery	Brown Rice	Citrus Leaves	Fava Beans
Product ID	641-C-1	602-C-1	642-C-1	526-C-1	643-C-1	644-C-1
Expiry Date	31 May 22	1 Feb 23	1 May 23	1 May 23	30 Aug 23	28 Feb 25
Sample Size	20g	20g	20g	20g	20g	20g
Boron (mg/kg)	75.8		43.9	1.14	70.1	10.3
Calcium (%w/w)	0.408	0.0335	0.919	0.0109	2.58	0.101
Copper (mg/kg)	6.12	4.89	10.9	3.92	9.18	7.88
Iron (mg/kg)	218	46.3	38.8	24.0	75.0	46.8
Magnesium (%w/w)	0.195	0.176	0.179	0.138	0.526	0.135



<b>Manganese (mg/kg)</b>	311		39.6	20.2		
<b>Nitrogen (%w/w)</b>	1.99	2.76	2.73	1.62		4.33
<b>Phosphorus (%w/w)</b>	0.138	0.473	0.720	0.359	0.312	0.329
<b>Potassium (%w/w)</b>	0.634	0.836	7.91	0.239	1.66	1.05
<b>Sodium (mg/kg)</b>	229	5.45	8,699			181
<b>Sulphur (%w/w)</b>	0.257	0.176	0.286	0.144	0.196	0.177
<b>Zinc (mg/kg)</b>	45.3	35.6	21.0	21.1	13.4	28.6



**QC Material: Plant Material**

Matrix: Plant Material	Product ID	7885-QC	7887-QC	10849-QC	12959-QC
	Process Run	PR6399	PR8651	PR9947	PR9537
	Expiry Date	01 Feb 23	01 May 23	30 May 25	31 Aug 26
	Sample Size	20g	20g	20g	20g
	<b>Aluminium (mg/kg)</b>	1095	7620	310	1.96
	<b>Boron (mg/kg)</b>	20.9	48.8	14.9	0.720
	<b>Cadmium (µg/kg)</b>	48.4	15.3	1080	18.0
	<b>Calcium (%w/w)</b>	0.576	1.47	1.40	0.0100
	<b>Carbon (%w/w)</b>	48.7	45.6	40.4	43.5
	<b>Chloride (mg/kg)</b>	1195	232	2700	313
	<b>Cobalt (µg/kg)</b>	109	22.9	191	9.83
	<b>Copper (mg/kg)</b>	7.59	4.44	9.09	4.40
	<b>Iron (mg/kg)</b>	503	57.0	344	11.6
	<b>Lead (µg/kg)</b>	171	84.8	226	3.00
	<b>Magnesium (%w/w)</b>	0.264	0.0810	0.825	0.124
	<b>Manganese (mg/kg)</b>	290	1790	141	24.9
	<b>Molybdenum (µg/kg)</b>	253	251	277	169
	<b>Nitrate Nitrogen (mg/kg)</b>	13.4	3.40	984	1.48
	<b>Nitrogen (%w/w)</b>	3.36	1.02	4.23	1.34
	<b>Phosphorus (%w/w)</b>	0.260	0.0850	0.383	0.344
	<b>Potassium (%w/w)</b>	1.38	0.928	5.87	0.283



	<b>Selenium (µg/kg)</b>	37.7	45.7	28.0	17.0
	<b>Sodium (mg/kg)</b>	87.5	185	92.1	13.9
	<b>Sulphur (%w/w)</b>	0.258	0.190	0.436	0.0930
	<b>Zinc (mg/kg)</b>	112	13.9	95.4	21.2

