

Reference Material and Inter-laboratory Quality Control Materials Product Summary

May 2023

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	Citrus Leaves	Wholegrain Oats	Fava Beans
Product ID	643-C-1	808-C-1	644-C-1
Expiry Date	30 Aug 23	28 Feb 24	28 Feb 25
Sample Size	20g	20g	20g
Boron (mg/kg)	70.1	1.12	10.3
Calcium (%w/w)	2.58	0.0512	0.101
Carbon (%w/w)		46.3	
Chloride (mg/kg)		476	

Copper (mg/kg)	9.18	3.94	7.88
Iron (mg/kg)	75.0		46.8
Magnesium (%w/w)	0.526	0.127	0.135
Manganese (mg/kg)		50.0	
Molybdenum (µg/kg)		1,079	
Nitrogen (%w/w)		1.72	4.33
Phosphorus (%w/w)	0.312	0.393	0.329
Potassium (%w/w)	1.66	0.369	1.05
Selenium (µg/kg)		140	
Sodium (mg/kg)		22.9	181
Sulphur (%w/w)	0.196	0.143	0.177
Zinc (mg/kg)	13.4	17.6	28.6

QC Material: Plant Material

Matrix: Plant Material	Product ID	9336-QC	10596-QC	10849-QC	12307-QC	12959-QC
	Process Run	PR10273	PR8255	PR9947	PR10107	PR9537
	Expiry Date	30 Oct 23	28 Feb 25	30 May 25	31 Aug 26	31 Aug 26
	Sample Size	20g	20g	20g	20g	20g
	Aluminium (mg/kg)	334	131	311	2.03	1.93
	Boron (mg/kg)	80.6	45.0	14.9	6.64	0.720
	Cadmium (µg/kg)	1.99	7.80	1080	19.6	18.0
	Calcium (%w/w)	3.04	0.980	1.40	0.0390	0.0100
	Carbon (%w/w)	44.3	49.6	40.5	43.6	43.5
	Chloride (mg/kg)	1090	1600	2710	282	314
	Cobalt (µg/kg)	79.3	1330	191	47.8	9.83
	Copper (mg/kg)	127	8.73	9.06	5.67	4.40
	Iron (mg/kg)	206	155	345	40.7	11.6
	Lead (µg/kg)	110	69.0	226	4.03	3.00
	Magnesium (%w/w)	0.280	0.211	0.825	0.109	0.124
	Manganese (mg/kg)	28.6	196	141	12.1	24.9
	Molybdenum (µg/kg)	190	22.1	277	2380	169
	Nitrate Nitrogen (mg/kg)	8.27	432	987	3.25	1.18
	Nitrogen (%w/w)	2.33	3.15	4.23	3.80	1.34
	Phosphorus (%w/w)	0.160	0.122	0.383	0.383	0.343

	Potassium (%w/w)	1.76	2.10	5.90	1.04	0.283
	Selenium (µg/kg)	83.4	49.8	28.0	933	17.0
	Sodium (mg/kg)	91.0	11.3	91.7	17.2	13.9
	Sulphur (%w/w)	0.213	0.202	0.438	0.130	0.0930
	Zinc (mg/kg)	22.3	7.53	95.4	20.8	21.2