

Reference Material and Inter-laboratory Quality Control Materials Product Summary

January 2018

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	Carrot Tuber	Olive Leaves	Maize Flour	Pea Straw	Barley	Clover	Rice Leaves	Capsicum	Lentils
Product ID	16-C-3	4-C-4	11-C-5	18-C-3	176-C-2	17-C-4	38-C-3	27-C-3	28-C-3
Expiry Date	30 May 18	31 Oct 18	31 Oct 18	31 Oct 19	31 May 20	28 Oct 20	19 Jan 21	31 May 21	31 May 21
Sample Size (min)	20g	20g	20g	20g	20g	20g	20g	20g	20g
Aluminium (mg/kg)		48.1	1.36	275			63.3	162	
Boron (mg/kg)	24.0	17.7	2.39	22.7			7.07	54.3	7.19
Calcium (%w/w)	0.334	0.611	0.0056	1.03	0.0303	1.09	0.308	2.29	0.0647
Carbon (%w/w)		50.5		45.2		44.3			

Copper (mg/kg)	4.10	7.51	1.52	2.52	6.05	11.7	5.98	136	8.35
Iron (mg/kg)		51.4	17.4	296	46.2	437	119	273	72.2
Magnesium (%w/w)		0.0802	0.0931	0.307	0.107	0.299	0.157	1.22	
Manganese (mg/kg)			3.70	47.9				143	12.3
Nitrogen (%w/w)		1.85	1.20	0.983	1.87	2.76	2.58	3.76	3.94
Phosphorus (%w/w)		0.163	0.295	0.0583	0.288	0.134	0.286	0.313	0.292
Potassium (%w/w)	2.79	1.57	0.383	0.525	0.356	0.415	2.29	4.93	0.901
Sodium (mg/kg)		516	0.0009	594		14,256		73.9	
Sulphur (%w/w)	0.116	0.133	0.0887		0.137	0.211	0.182	0.524	
Zinc (mg/kg)	14.6	17.8	21.0	8.67	19.6	27.9	23.7	39.2	38.5

QC Material: Plant Material

Matrix: Plant Material	Product ID	6547-QC	7021-QC	6112-QC	6561-QC
	Process Run	PR5366	PR5366	PR5366	PR5366
	Expiry Date	31 Oct 20	19 Jan 21	31 May 21	31 May 21
	Sample Size(s)	20g	20g	20g	20g
	Aluminium (mg/kg)	1.14	70.1	92.6	13.4
	Boron (mg/kg)	1.13	60.2	3.31	7.10
	Cadmium (µg/kg)	5.30	9.67	23.4	8.77
	Calcium (%w/w)	0.0460	2.26	0.329	0.0640
	Carbon (%w/w)	46.6	42.4	43.9	43.8
	Chloride (mg/kg)	514	3800	7370	1045
	Cobalt (µg/kg)	21.9	33.0	107	183
	Copper (mg/kg)	5.12	7.17	3.61	8.19
	Iron (mg/kg)	35.7	98.3	80.1	73.4
	Lead (µg/kg)	10.1	279	80.8	18.7
	Magnesium (%w/w)	0.119	0.375	0.209	0.102
	Manganese (mg/kg)	44.8	44.3	25.2	12.3
	Molybdenum (µg/kg)	265	196	559	2530
	Nitrate Nitrogen (mg/kg)	4.78	18.0	4.02	3.65
	Nitrogen (%w/w)	2.09	2.68	0.860	3.96
	Phosphorus (%w/w)	0.388	0.176	0.171	0.285
	Potassium (%w/w)	0.373	1.53	1.64	0.870

	Selenium (µg/kg)	57.3	553	78.2	1435
	Silicon (%w/w)	0.0150	0.132	0.201	0.0050
	Sodium (mg/kg)	26.5	64.4	218	10.6
	Sulphur (%w/w)	0.179	0.169	0.115	0.183
	Zinc (mg/kg)	21.4	15.3	34.1	37.2