

Reference Material and Inter-laboratory Quality Control Materials Product Summary

July 2025

Version: 2

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.

*Ordering Reference Materials and/or Quality Control Materials, acknowledges you have read and understood our terms and conditions. These can be found at:
<https://www.global-proficiency.com/terms-conditions>*

Reference Materials: Plant Material

Product Type	Eggplant Leaves	Black Lentils	Red Rice	Olive Leaves	Split Peas	Mixed Pasture	Mixed Pasture
Product ID	916-C-1	880-C-1	832-C-1	881-C-1	990-C-1	918-C-1	969-C-1
Expiry Date	28 Feb 26	30 May 26	31 May 26	31 Aug 26	31 Aug 26	28 Feb 27	30 Apr 27
Sample Size	20g	20g	20g	20g	20g	20g	20g
Aluminium (mg/kg)			3.55	313	2.11		204
Boron (mg/kg)	43.3	8.42	0.780	23.5	6.45	4.86	8.73
Cadmium (µg/kg)	12.9				21.3	43.7	
Calcium (%w/w)	4.65	0.0584	0.0081	1.98	0.0390	0.494	0.496

Carbon (%w/w)		43.8	42.2	50.6	43.4		44.4
Chloride (mg/kg)		877	225	970	250	13,760	17,602
Cobalt (µg/kg)	31.8	57.0	22.2			98.0	66.1
Copper (mg/kg)	15.5	10.1	2.57			7.80	8.45
Iron (mg/kg)	106		8.39	289	40.1	207	188
Lead (µg/kg)	255					171	108
Magnesium (%w/w)	1.06	0.100	0.0850	0.285	0.110	0.210	0.263
Manganese (mg/kg)	219	12.7	15.4	18.4	12.2	66.1	109
Molybdenum (µg/kg)	9,006	3,062	483	95.3	2,373	939	877
Nitrate Nitrogen (mg/kg)	8,911			5.85	1.98	1,045	278
Nitrogen (%w/w)	5.37	4.56	1.58	1.92	3.71	3.97	3.96
Phosphorus (%w/w)	0.814	0.338	0.248	0.186	0.393	0.424	0.405
Potassium (%w/w)		0.850	0.176		1.05		3.46
Selenium (µg/kg)	14.0	4,343	38.2	75.1	909	70.4	
Sodium (mg/kg)	231	5.54	6.10	235	17.4	3,325	2,108
Sulphur (%w/w)	0.668	0.229	0.128	0.200	0.136	0.360	0.353
Zinc (mg/kg)	29.1	41.4	18.3	29.9	21.2	33.1	32.2

QC Material: Plant Material

Matrix: Plant Material	Product ID	10898-QC	12617-QC	11441-QC	12305-QC	12306-QC	12151-QC	12307-QC	12613-QC	12620-QC	12815-QC
	Process Run	PR11640	PR11640	PR11481	PR11001	PR10663	PR11001	PR11058	PR11481	PR12221	PR10821
	Expiry Date	31 Aug 25	31 Oct 25	28 Feb 26	30 May 26	31 May 26	31 Aug 26	31 Aug 26	28 Feb 27	30 Apr 27	01 May 28
	Sample Size	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g
	Aluminium (mg/kg)	2.49	39.0	40.8	17.4	4.36	311	2.03	240	205	261
	Boron (mg/kg)	0.810	22.3	43.6	8.36	0.915	23.6	6.64	4.88	8.60	5.84
	Cadmium (µg/kg)	1.29	316	12.9	5.63	30.5	7.56	19.6	42.5	57.5	53.5
	Calcium (%w/w)	0.0230	1.49	4.53	0.0590	0.0080	1.93	0.0390	0.489	0.498	0.296
	Carbon (%w/w)	43.3	48.4	36.3	43.5	42.1	50.3	43.6	43.7	44.3	44.5
	Chloride (mg/kg)	1225	870	1970	913	208	944	282	13700	17350	4190
	Cobalt (µg/kg)	3.50	29.8	31.0	58.0	22.6	105	47.8	96.5	66.5	80.0
	Copper (mg/kg)	5.85	59.0	15.6	9.88	2.61	8.32	5.67	7.82	8.49	4.51
	Iron (mg/kg)	39.3	54.3	103	78.9	8.64	291	40.7	198	184	195
	Lead (µg/kg)	17.4	79.6	245	6.60	8.44	314	4.03	171	106	120
	Magnesium (%w/w)	0.0970	0.373	1.04	0.0980	0.0840	0.280	0.109	0.202	0.262	0.137
	Manganese (mg/kg)	13.9	197	212	12.3	15.7	18.0	12.1	65.7	111	54.3
	Molybdenum (µg/kg)	855	179	9170	3040	456	90.3	2380	940	895	368
	Nitrate Nitrogen (mg /kg)	2.77	9.20	8930	4.14	2.00	6.95	3.25	1040	273	137
	Nitrogen (%w/w)	1.54	2.30	5.45	4.62	1.59	1.93	3.80	4.03	3.99	1.25
	Phosphorus (%w/w)	0.310	0.134	0.800	0.336	0.240	0.180	0.383	0.414	0.391	0.188
	Potassium (%w/w)	0.415	0.925	5.14	0.821	0.173	0.875	1.04	3.37	3.35	1.11
	Selenium (µg/kg)	961	90.0	19.4	4360	39.1	76.9	933	87.0	78.1	34.2

	Sodium (mg/kg)	294	41.5	238	6.69	6.12	235	17.2	3300	2115	400
	Sulphur (%w/w)	0.104	0.230	0.653	0.221	0.124	0.190	0.130	0.341	0.350	0.109
	Zinc (mg/kg)	13.8	27.2	29.6	41.5	18.0	29.3	20.8	33.1	32.0	25.6