

Reference Material and Inter-laboratory Quality Control Materials Product Summary

March 2022

Version: 1

Assigned Values: Values provided have been generated from Inter-Laboratory Proficiency Programmes (ILPP) or from data provided by laboratories for the purpose of characterisation. 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.

Note: When ordering QC materials, please quote both the Product ID AND the process run

QC Material: Fertiliser - Phosphate Rock

Matrix: Fertiliser	Product ID Process Run Expiry Date Sample Size	8952-QC PR7157 30 Jun 22 125g	8953-QC PR8032 30 Jun 22 125g	12864-QC PR9709 31 Oct 26 125g
	Cadmium (mg/kg)	0.15	16.64	31.35
	Calcium (g/100g)	32.66	36.00	37.90
	Citric Acid Soluble P (g/100g)	2.48	3.71	3.45
	Fluoride (%)	2.98	3.86	4.11
	Grist Test (% Pass)	32.99	11.41	5.95
	Lead (mg/kg)	15.66	3.51	3.05
	Mercury (mg/kg)	9.69	0.02	0.03
	Moisture (g/100g)	0.94	0.89	0.81
	Total Phosphorus (g/100g)	14.07	14.14	15.84

QC Material: Fertiliser - Potassic Super

Matrix: Fertiliser	Product ID	8970-QC	10987-QC	11395-QC
	Process Run	PR9551	PR8700	PR9551
	Expiry Date	23 Aug 23	30 Apr 24	30 Apr 25
	Sample Size	125g	125g	125g
	Cadmium (mg/kg)	10.14	9.96	7.00
	Calcium (g/100g)	16.78	15.47	10.19
	Citric Acid Soluble P (g/100g)	6.18	5.60	3.74
	Fluoride (%)	1.36	1.43	0.90
	Free Acid (as H ₃ PO ₄) (g/100g)	1.40	1.80	0.39
	Free Acid (as P) (g/100g)	0.41	0.60	0.10
	Moisture (g/100g)	3.82	5.39	4.43
	Potassium (g/100g)	11.77	14.65	25.44
	Sulphate-Sulphur(as S)(g/100g)	8.89	8.08	5.43
	Total Phosphorus (g/100g)	7.31	6.49	4.39
	W-Soluble Phosphorus (g/100g)	5.99	5.38	3.30

QC Material: Fertiliser - Serpentine Super

Matrix: Fertiliser	Product ID	8959-QC	11396-QC	11397-QC
	Process Run	PR8271	PR9401	PR9983
	Expiry Date	6 Sep 22	31 Oct 24	31 Oct 25
	Sample Size	125g	125g	125g
	Cadmium (mg/kg)	10.94	11.91	10.38
	Calcium (g/100g)	15.49	16.10	15.99
	Citric Acid Soluble P (g/100g)	5.24	5.17	5.05
	Fluoride (%)	1.50	1.52	1.48
	Moisture (g/100g)	3.04	3.28	3.44
	Sulphate-Sulphur(as S)(g/100g)	8.88	8.74	8.63
	Total Magnesium (g/100g)	4.70	4.93	5.30
	Total Phosphorus (g/100g)	6.64	6.68	6.95
	W-Soluble Phosphorus (g/100g)	1.49	1.25	1.48

QC Material: Fertiliser - Sulphur Super

Matrix: Fertiliser	Product ID	11398-QC	11399-QC
	Process Run	PR9401	PR9983
	Expiry Date	31 Oct 24	31 Oct 25
	Sample Size	125g	125g
	Cadmium (mg/kg)	9.90	10.97
	Calcium (g/100g)	16.50	16.14
	Citric Acid Soluble P (g/100g)	6.05	6.09
	Elemental Sulphur (g/100g)	22.51	26.17
	Fluoride (%)	1.49	1.59
	Free Acid (as H ₃ PO ₄) (g/100g)		0.76
	Free Acid (as P) (g/100g)		0.15
	Moisture (g/100g)	3.13	2.72
	Sulphate-Sulphur(as S)(g/100g)	8.75	8.28
	Total Phosphorus (g/100g)	7.04	6.97
	W-Soluble Phosphorus (g/100g)	5.80	5.73

QC Material: Fertiliser - Super Phosphate

Matrix: Fertiliser	Product ID	8968-QC	8969-QC
	Process Run	PR7896	PR6906
	Expiry Date	23 May 22	31 May 22
	Sample Size	125g	125g
	Cadmium (mg/kg)	14.58	13.40
	Calcium (g/100g)	21.50	
	Citric Acid Soluble P (g/100g)	7.96	8.13
	Fluoride (%)	2.11	1.99
	Free Acid (as P) (g/100g)	0.19	0.19
	Moisture (g/100g)	2.62	3.21
	Sulphate-Sulphur(as S)(g/100g)	11.55	11.49
	Total Phosphorus (g/100g)	9.14	9.24
	W-Soluble Phosphorus (g/100g)	7.48	7.71