

Reference Material and Inter-laboratory Quality Control Materials Product Summary

March 2023

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	12864-QC
	Process Run	PR9709
	Expiry Date	31 Oct 26
	Sample Size	125g
	Cadmium (mg/kg)	31.35
	Calcium (g/100g)	37.90
	Citric Acid Soluble P (g /100g)	3.45
	Fluoride (%)	4.11
	Grist Test (% Pass)	5.95
	Lead (mg/kg)	3.05
	Mercury (mg/kg)	0.03
	Moisture (g/100g)	0.81
	Total Phosphorus (g/ 100g)	15.81

QC Material: Fertiliser - Potassic Super

Matrix: Fertiliser	Product ID	8970-QC	10987-QC	11395-QC	13843-QC	13844-QC
	Process Run	PR9551	PR8700	PR9551	PR10283	PR10283
	Expiry Date	23 Aug 23	30 Apr 24	30 Apr 25	5 Apr 27	5 Apr 27
	Sample Size	125g	125g	125g	125g	125g
	Cadmium (mg/kg)	10.14	9.96	7.00	11.85	14.45
	Calcium (g/100g)	16.78	15.47	10.19	16.82	19.80
	Citric Acid Soluble P (g /100g)	6.18	5.60	3.74	6.03	7.16
	Fluoride (%)	1.36	1.43	0.90	1.63	1.94
	Free Acid (as H3PO4) (g/100g)	1.40	1.80	0.39		2.00
	Free Acid (as P) (g/100g)	0.41	0.60	0.10	0.45	0.56
	Moisture (g/100g)	3.82	5.39	4.43	4.48	4.74
	Potassium (g/100g)	11.77	14.65	25.44	15.25	7.61
	Sulphate-Sulphur(as S) (g/100g)	8.89	8.08	5.43	7.83	9.44
	Total Phosphorus (g/ 100g)	7.31	6.49	4.39	6.93	8.26
	W-Soluble Phosphorus (g/100g)	5.99	5.38	3.30	5.57	6.68

QC Material: Fertiliser - Serpentine Super

Matrix: Fertiliser	Product ID	11396-QC	11397-QC	13556-QC
	Process Run	PR9401	PR9983	PR10618
	Expiry Date	31 Oct 24	31 Oct 25	28 Feb 27
	Sample Size	125g	125g	125g
	Cadmium (mg/kg)	11.91	10.38	13.09
	Calcium (g/100g)	16.10	15.99	15.44
	Citric Acid Soluble P (g /100g)	5.17	5.05	4.84
	Fluoride (%)	1.52	1.48	1.47
	Moisture (g/100g)	3.28	3.44	3.13
	Sulphate-Sulphur(as S) (g/100g)	8.74	8.63	7.73
	Total Magnesium (g/ 100g)	4.93	5.30	5.73
	Total Phosphorus (g/ 100g)	6.68	6.95	6.63
	W-Soluble Phosphorus (g/100g)	1.25	1.48	1.23

QC Material: Fertiliser - Sulphur Super

Matrix: Fertiliser	Product ID Process Run Expiry Date Sample Size	11398-QC PR9401 31 Oct 24 125g	11399-QC PR9983 31 Oct 25 125g	13557-QC PR10618 28 Feb 27 125g
	Ammonium Citrate P (g /100g)			6.85
	Cadmium (mg/kg)	9.90	10.97	14.00
	Calcium (g/100g)	16.50	16.14	16.46
	Citric Acid Soluble P (g /100g)	6.05	6.09	6.54
	Elemental Sulphur (g/ 100g)	22.51	26.17	22.84
	Fluoride (%)	1.49	1.59	1.62
	Free Acid (as H ₃ PO ₄) (g/100g)		0.76	
	Free Acid (as P) (g/100g)		0.15	0.14
	Moisture (g/100g)	3.13	2.72	3.67
	Sulphate-Sulphur(as S) (g/100g)	8.75	8.28	8.61
	Total Phosphorus (g/ 100g)	7.04	6.97	6.96
	W-Soluble Phosphorus (g/100g)	5.80	5.73	6.40