

Reference Material and Inter-laboratory Quality Control Materials Product Summary

February 2024

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.

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>

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	13845-QC PR10409 5 Apr 27 125g	13846-QC PR10409 5 Apr 27 125g
	Cadmium (mg/kg)	31.81	25.34
	Calcium (g/100g)	36.33	24.74
	Citric Acid Soluble P (g/100g)	3.58	2.45
	Fluoride (%)	3.99	1.62
	Formic Acid Soluble P (g/100g)	6.65	3.01
	Lead (mg/kg)	4.84	20.73
	Mercury (mg/kg)	0.02	0.12
	Moisture (g/100g)	1.10	0.97

	Total Phosphorus (g/100g)	15.26	14.12
--	----------------------------------	-------	-------

QC Material: Fertiliser - Potassic Super

Matrix: Fertiliser	Product ID	13843-QC	13844-QC
	Process Run	PR11054	PR11054
	Expiry Date	5 Apr 27	5 Apr 27
	Sample Size	125g	125g
	Cadmium (mg/kg)	11.86	14.43
	Calcium (g/100g)	16.76	19.91
	Citric Acid Soluble P (g/100g)	6.05	7.17
	Fluoride (%)	1.63	1.93
	Free Acid (as H₃PO₄) (g/100g)		1.87
	Free Acid (as P) (g/100g)	0.49	0.57
	Moisture (g/100g)	4.48	5.09
	Potassium (g/100g)	14.98	7.66
	Sulphate-Sulphur(as S) (g/100g)	7.85	9.30
	Total Phosphorus (g/100g)	6.91	8.22
	W-Soluble Phosphorus (g/100g)	5.55	6.66

QC Material: Fertiliser - Serpentine Super

Matrix: Fertiliser	Product ID	11397-QC	13556-QC	13848-QC
	Process Run	PR11053	PR10618	PR11330
	Expiry Date	31 Oct 25	28 Feb 27	28 Feb 28
	Sample Size	125g	125g	125g
	Cadmium (mg/kg)	10.19	12.88	14.99
	Calcium (g/100g)	16.02	15.34	19.18
	Citric Acid Soluble P (g/100g)	5.07	4.83	5.17
	Fluoride (%)	1.46	1.48	
	Moisture (g/100g)	3.31	3.28	4.26
	Sulphate-Sulphur(as S) (g/100g)	8.65	7.74	8.29
	Total Magnesium (g/100g)	5.27	5.73	4.95
	Total Phosphorus (g/100g)	6.93	6.66	7.24
	W-Soluble Phosphorus (g/100g)	1.47	1.23	1.71

QC Material: Fertiliser - Sulphur Super

Matrix: Fertiliser	Product ID	11399-QC	13557-QC	13847-QC
	Process Run	PR11053	PR10618	PR11330
	Expiry Date	31 Oct 25	28 Feb 27	28 Feb 28
	Sample Size	125g	125g	125g
	Ammonium Citrate P (g /100g)	6.27	6.89	
	Cadmium (mg/kg)	10.76	14.03	15.60
	Calcium (g/100g)	15.78	16.62	17.41
	Citric Acid Soluble P (g/ 100g)	6.12	6.51	6.83
	Elemental Sulphur (g/1 00g)	26.73	22.92	21.52
	Fluoride (%)	1.58	1.63	1.92
	Free Acid (as H3PO4) (g /100g)	0.70		
	Free Acid (as P) (g/100g)	0.14	0.14	0.08
	Moisture (g/100g)	2.51	3.82	1.67
	Sulphate-Sulphur(as S) (g/100g)	8.36	8.63	8.54
	Total Phosphorus (g/10 0g)	6.98	6.90	7.83
	W-Soluble Phosphorus (g/100g)	5.76	6.40	6.25