Inter-laboratory Quality Control Material Data Sheet

QC Material ID: 13852-QC-PR11759

Product Type: Acid Sulphate

Issue Date: 9 January 2025

Expiry Date: 31 October 2027

Test Name	Methods	n Value	Assigned Value	Assigned Range
ANC_BT (%CaCO3)	ANC_BT (%CaCO3)	9	0	-
ANC_E (mol H+/t)	ANC_E (mol H+/t)	5 *	0	-
Ca_HCl (%Ca)	Ca_HCl (%Ca)	4 *	0.0975	0.0530 - 0.1420
Ca_KCl (%Ca)	Ca_KCl (%Ca)	11	0.0800	0.0711 - 0.0889
Ca_P (%Ca)	Ca_P (%Ca)	9	0.0850	0.0731 - 0.0969
Mg_HCl (%Mg)	Mg_HCl (%Mg)	4 *	0.0640	0.0432 - 0.0848
Mg_KCl (%Mg)	Mg_KCl (%Mg)	11	0.0470	0.0390 - 0.0550
Mg_P (%Mg)	Mg_P (%Mg)	9	0.0484	0.0413 - 0.0555
pH_KCl (pH units)	pH_KCl (pH units)	15	3.83	3.68 - 3.98
pH_OX (pH units)	pH_OX (pH units)	12	2.91	2.58 - 3.24
S_CR (%S)	S_CR (%S)	13	0.0120	0.0001 - 0.0239
S_HCl (%S)	S_HCl (%S)	13	0.397	0.320 - 0.474
S_KCl (%S)	S_KCl (%S)	13	0.0430	0.0341 - 0.0519
S_P (%S)	S_P (%S)	10	0.142	0.118 - 0.166
TAA (mol H+/t)	TAA (mol H+/t)	15	80.0	57.8 - 102.2
TPA (mol H+/t)	TPA (mol H+/t)	11	198	109 - 287

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** n Values < 8 are indicative only and should be used with caution*

Instructions for use: Due to possible moisture reabsorption, re-dry the sample at 80°C to constant weight prior to analysis

Description: 100g+ packaged in foil-laminated sachet

Homogeneity: This QC material has been assessed as homogeneous for use in an Inter-Laboratory Proficiency Study

Stability: An expiry period consistent with the shelf life of the product, experience, and technical advice has been applied

Storage: Keep samples at a stable temperature < 25°C (eg in air conditioned storage). Reseal containers after each use. Do not store in sunlight.

Values: The *Assigned Value* is the consensus mean from an inter-laboratory proficiency round excluding outliers; *n Values* are the number of results used to calculate the assigned value. The *Assigned Range* is 2 standard deviations of *n*

Methods: Multiple methods were used in the preparation of these assigned values.

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