Inter-laboratory Quality Control Material Data Sheet

QC Material ID: 13277-QC-PR13002

Product Type: Mixed Pasture

Issue Date: 5 August 2026

Expiry Date: 1 February 2027

Test Name	Methods	n Value	Assigned Value	Assigned Range
Aluminium (mg/kg)	All Total Extraction Methods	17	332	285 - 379
Arsenic (mg/kg)	All Total Extraction Methods	7	0.0816	0.0413 - 0.1219
Boron (mg/kg)	All Total Extraction Methods	16	5.27	4.59 - 5.95
Cadmium (µg/kg)	All Total Extraction Methods	11	48.0	39.7 - 56.3
Calcium (%w/w)	All Total Extraction Methods	22	0.487	0.448 - 0.526
Carbon (%w/w)	All Total Extraction Methods	13	43.8	42.9 - 44.7
Chloride (mg/kg)	All Total Extraction Methods	12	13,500	12017 - 14983
Chromium (mg/kg)	All Total Extraction Methods	6	1.15	1.03 - 1.27
Cobalt (µg/kg)	All Total Extraction Methods	12	110	92 - 127
Copper (mg/kg)	All Total Extraction Methods	20	7.83	7.09 - 8.57
Iron (mg/kg)	All Total Extraction Methods	19	251	215 - 287
Lead (µg/kg)	All Total Extraction Methods	9	127	100 - 154
Magnesium (%w/w)	All Total Extraction Methods	21	0.204	0.186 - 0.222
Manganese (mg/kg)	All Total Extraction Methods	18	70.7	66.9 - 74.4
Molybdenum (µg/kg)	All Total Extraction Methods	12	888	745 - 1030
Nitrate Nitrogen (mg/kg)	All Total Extraction Methods	10	1,110	942 - 1268

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Nitrogen (%w/w)	All Total Extraction Methods	18	4.07	3.82 - 4.33
Phosphorus (%w/w)	All Total Extraction Methods	19	0.420	0.390 - 0.450
Potassium (%w/w)	All Total Extraction Methods	20	3.56	3.17 - 3.95
Selenium (µg/kg)	All Total Extraction Methods	11	118	71 - 165
Sodium (mg/kg)	All Total Extraction Methods	18	3,030	2773 - 3277
Sulphur (%w/w)	All Total Extraction Methods	22	0.350	0.303 - 0.397
Vanadium (mg/kg)	All Total Extraction Methods	6	0.469	0.324 - 0.614
Zinc (mg/kg)	All Total Extraction Methods	15	35.5	34.0 - 37.0

** 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 65°C to constant weight prior to analysis

Description: 20g+ irradiated, packaged in plastic jar

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 median 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 Values*.

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

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