Inter-laboratory Quality Control Material Data Sheet

QC Material ID: 12613-QC-PR11481

Product Type: Mixed Pasture

Issue Date: 24 July 2025

Expiry Date: 28 February 2027

Test Name	Methods	n Value	Assigned Value	Assigned Range
Aluminium (mg/kg)	All Total Extraction Methods	21	240	193 - 287
Boron (mg/kg)	All Total Extraction Methods	18	4.88	4.42 - 5.34
Cadmium (µg/kg)	All Total Extraction Methods	13	42.5	37.6 - 47.3
Calcium (%w/w)	All Total Extraction Methods	28	0.489	0.427 - 0.552
Carbon (%w/w)	All Total Extraction Methods	17	43.7	42.5 - 44.9
Chloride (mg/kg)	All Total Extraction Methods	8	13,700	13403 - 13997
Cobalt (µg/kg)	All Total Extraction Methods	14	96.5	86.1 - 106.9
Copper (mg/kg)	All Total Extraction Methods	17	7.82	7.43 - 8.21
Iron (mg/kg)	All Total Extraction Methods	27	198	148 - 248
Lead (µg/kg)	All Total Extraction Methods	13	171	144 - 198
Magnesium (%w/w)	All Total Extraction Methods	27	0.202	0.178 - 0.226
Manganese (mg/kg)	All Total Extraction Methods	18	65.7	63.5 - 67.9
Molybdenum (µg/kg)	All Total Extraction Methods	14	940	869 - 1011
Nitrate Nitrogen (mg/kg)	All Total Extraction Methods	11	1,040	951 - 1129
Nitrogen (%w/w)	All Total Extraction Methods	23	4.03	3.88 - 4.18
Phosphorus (%w/w)	All Total Extraction Methods	23	0.414	0.387 - 0.441

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Version 2

Potassium (%w/w)	All Total Extraction Methods	28	3.37	2.84 - 3.90
Selenium (µg/kg)	All Total Extraction Methods	11	87.0	60.3 - 113.7
Sodium (mg/kg)	All Total Extraction Methods	20	3,300	3048 - 3552
Sulphur (%w/w)	All Total Extraction Methods	25	0.341	0.294 - 0.388
Zinc (mg/kg)	All Total Extraction Methods	24	33.1	30.0 - 36.2

** 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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