Inter-laboratory Quality Control Material Data Sheet

QC Material ID: 12620-QC-PR12221

Product Type: Mixed Pasture Dairy

Issue Date: 17 June 2025

Expiry Date: 30 April 2027

Test Name	Methods	n Value	Assigned Value	Assigned Range
Aluminium (mg/kg)	All Total Extraction Methods	15	205	193 - 217
Boron (mg/kg)	All Total Extraction Methods	21	8.60	7.53 - 9.67
Cadmium (µg/kg)	All Total Extraction Methods	15	57.5	53.4 - 61.5
Calcium (%w/w)	All Total Extraction Methods	22	0.498	0.480 - 0.516
Carbon (%w/w)	All Total Extraction Methods	19	44.3	43.0 - 45.6
Chloride (mg/kg)	All Total Extraction Methods	14	17,400	15867 - 18833
Cobalt (µg/kg)	All Total Extraction Methods	17	66.5	54.3 - 78.7
Copper (mg/kg)	All Total Extraction Methods	20	8.49	7.99 - 8.99
Iron (mg/kg)	All Total Extraction Methods	23	184	166 - 202
Lead (µg/kg)	All Total Extraction Methods	16	106	77 - 135
Magnesium (%w/w)	All Total Extraction Methods	24	0.262	0.232 - 0.292
Manganese (mg/kg)	All Total Extraction Methods	20	111	106 - 115
Molybdenum (µg/kg)	All Total Extraction Methods	18	895	759 - 1031
Nitrate Nitrogen (mg/kg)	All Total Extraction Methods	11	273	245 - 301
Nitrogen (%w/w)	All Total Extraction Methods	22	3.99	3.75 - 4.23
Phosphorus (%w/w)	All Total Extraction Methods	25	0.391	0.349 - 0.433

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Potassium (%w/w)	All Total Extraction Methods	23	3.35	2.96 - 3.74
Selenium (µg/kg)	All Total Extraction Methods	18	78.1	46.9 - 109.2
Sodium (mg/kg)	All Total Extraction Methods	22	2,120	1922 - 2308
Sulphur (%w/w)	All Total Extraction Methods	21	0.350	0.320 - 0.380
Zinc (mg/kg)	All Total Extraction Methods	22	32.0	29.0 - 35.0

** 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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