Inter-laboratory Quality Control Material Data Sheet

QC Material ID: 12815-QC-PR10821

Product Type: Maize Silage

Issue Date: 16 April 2024

Expiry Date: 1 May 2028

Test Name	Methods	n Value	Assigned Value	Assigned Range
Aluminium (mg/kg)	All Total Extraction Methods	23	261	169 - 353
Boron (mg/kg)	All Total Extraction Methods	23	5.84	4.36 - 7.33
Cadmium (µg/kg)	All Total Extraction Methods	16	53.5	37.8 - 69.3
Calcium (%w/w)	All Total Extraction Methods	24	0.296	0.269 - 0.323
Carbon (%w/w)	All Total Extraction Methods	21	44.5	43.1 - 45.8
Chloride (mg/kg)	All Total Extraction Methods	13	4,190	3686 - 4694
Cobalt (µg/kg)	All Total Extraction Methods	16	80.0	61.9 - 98.1
Copper (mg/kg)	All Total Extraction Methods	24	4.51	3.52 - 5.50
Iron (mg/kg)	All Total Extraction Methods	22	195	176 - 214
Lead (µg/kg)	All Total Extraction Methods	11	120	64 - 176
Magnesium (%w/w)	All Total Extraction Methods	27	0.137	0.125 - 0.149
Manganese (mg/kg)	All Total Extraction Methods	22	54.3	49.2 - 59.5
Molybdenum (µg/kg)	All Total Extraction Methods	17	368	270 - 466
Nitrate Nitrogen (mg/kg)	All Total Extraction Methods	13	137	93 - 181
Nitrogen (%w/w)	All Total Extraction Methods	21	1.25	1.19 - 1.30
Phosphorus (%w/w)	All Total Extraction Methods	25	0.188	0.170 - 0.206

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Potassium (%w/w)	All Total Extraction Methods	26	1.11	0.99 - 1.23
Selenium (µg/kg)	All Total Extraction Methods	15	34.2	5.4 - 62.9
Sodium (mg/kg)	All Total Extraction Methods	23	400	338 - 462
Sulphur (%w/w)	All Total Extraction Methods	21	0.109	0.099 - 0.120
Zinc (mg/kg)	All Total Extraction Methods	25	25.6	22.3 - 28.9

** 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 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 Values*.

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