Inter-laboratory Quality Control Material Data Sheet

QC Material ID: 13941-QC-PR12835

Product Type: Spinach Leaves

Issue Date: 11 May 2026

Expiry Date: 1 February 2027

Test Name	Methods	n Value	Assigned Value	Assigned Range
Aluminium (mg/kg)	All Total Extraction Methods	18	256	158 - 354
Arsenic (mg/kg)	All Total Extraction Methods	8	0.150	0.100 - 0.200
Boron (mg/kg)	All Total Extraction Methods	22	35.3	29.7 - 40.9
Cadmium (µg/kg)	All Total Extraction Methods	14	346	304 - 388
Calcium (%w/w)	All Total Extraction Methods	20	0.759	0.694 - 0.824
Carbon (%w/w)	All Total Extraction Methods	16	40.0	38.6 - 41.3
Chloride (mg/kg)	All Total Extraction Methods	10	16,700	15760 - 17540
Chromium (mg/kg)	All Total Extraction Methods	10	2.29	1.72 - 2.85
Cobalt (µg/kg)	All Total Extraction Methods	10	220	208 - 232
Copper (mg/kg)	All Total Extraction Methods	22	7.68	6.73 - 8.62
Iron (mg/kg)	All Total Extraction Methods	20	611	519 - 702
Lead (µg/kg)	All Total Extraction Methods	8	482	470 - 494
Magnesium (%w/w)	All Total Extraction Methods	21	0.517	0.461 - 0.573
Manganese (mg/kg)	All Total Extraction Methods	20	60.7	54.3 - 67.1
Molybdenum (µg/kg)	All Total Extraction Methods	11	514	470 - 558
Nitrate Nitrogen (mg/kg)	All Total Extraction Methods	11	4,160	3419 - 4901

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Version 2

Nitrogen (%w/w)	All Total Extraction Methods	19	3.58	3.40 - 3.76
Phosphorus (%w/w)	All Total Extraction Methods	20	0.440	0.398 - 0.483
Potassium (%w/w)	All Total Extraction Methods	16	3.74	3.45 - 4.04
Selenium (µg/kg)	All Total Extraction Methods	11	69.6	32.2 - 106.9
Sodium (mg/kg)	All Total Extraction Methods	16	21,900	20664 - 23036
Sulphur (%w/w)	All Total Extraction Methods	19	0.394	0.347 - 0.441
Vanadium (mg/kg)	All Total Extraction Methods	5	0.527	0.275 - 0.779
Zinc (mg/kg)	All Total Extraction Methods	21	54.2	50.0 - 58.4

** 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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