

SPECIFICATIONS

Product: L-5-Methyltetrahydrofolate Calcium (L-5-MTHF-Ca)

CAS No.: 151533-22-1

Batch No.: 260101

Batch Size: 100 kg

Manufacturing Date: 2026-01-15

Composition: Active folate (calcium salt)

Raw Material: Synthetic / Fermentation-derived

Packaging: As per customer requirements

Storage: Store in cool and dry place, in a well-closed container. Keep away from strong light and heat. Long-term storage at 2°C recommended.

Shelf Life: 24 months

Allergen: None

Test Item	Specifications	Results	Test Methods
Physical/Assay			
Appearance	White to light yellowish crystalline powder	Conforms	Visual
Identification	Retention time conforms to standard	Conforms	HPLC
Assay (on dry basis)	95.0% – 102.0%	99.2%	HPLC
L-5-MTHF	72.0% – 87.0%	81.93%	Calculation
Calcium (on dry basis)	7.0% – 8.5%	8.01%	USP-NF2024
Water Content	6.0% – 17.0%	10.16%	Karl Fischer
Bulk Density	—	0.20 g/ml	USP-NF2024
Tapped Density	—	0.32 g/ml	USP-

			NF2024
Purity/Impurities			
Residual Solvents (Ethanol)	≤ 5000 ppm	ND	USP- NF2024
Platinum	≤ 1 ppm	Conforms	USP- NF2024
Boron	≤ 30 ppm	Conforms	USP- NF2024
Chloride	≤ 0.5%	Conforms	USP- NF2024
Heavy Metals			
Heavy Metals	≤ 10 ppm	Conforms	USP- NF2024
Lead (Pb)	≤ 0.5 ppm	Conforms	ICP-MS
Arsenic (As)	≤ 0.5 ppm	Conforms	ICP-MS
Mercury (Hg)	≤ 0.1 ppm	Conforms	ICP-MS
Cadmium (Cd)	≤ 0.1 ppm	Conforms	ICP-MS
Microbiological Control			
Total Plate Count	≤ 1000 cfu/g	10 cfu/g	USP- NF2024
Yeast & Mould	≤ 100 cfu/g	10 cfu/g	USP- NF2024
<i>E. coli</i>	Negative	Negative	USP- NF2024

<i>Salmonella</i>	Negative	Negative	USP- NF2024
<i>Staphylococcus aureus</i>	Negative	Negative	USP- NF2024
<i>Pseudomonas aeruginosa</i>	Negative	Negative	USP- NF2024
<i>Candida albicans</i>	Negative	Negative	USP- NF2024
<i>Clostridium</i>	Negative	Negative	USP- NF2024

Conclusion: The product meets the specified quality standards and is compliant with applicable food safety requirements.