

Certificate of Analysis

Product and Batch Information			
Product Name:	L-5-Methyltetrahydrofolate Calcium	Country of Origin:	P.R. China
CAS No.:	151533-22-1	Molecular Weight:	497.5
Molecular Formular:	C ₂₀ H ₂₃ CaN ₇ O ₆	Batch Number:	Acer2307M02
Manufacture Date:	July 18, 2023	Expired Date:	July 17, 2025
Assay/Test	Specification	Result	Test Method
Active Ingredients			
Assay (%) L-5-Methyltetrahydrofolate Calcium	95.0% ~ 102.0%	99.65%	HPLC
Typical Analysis			
Appearance	White to light yellowish crystalline powder	Conforms	Visual
Identification	The retention time of the major peak should conform with standard	Conforms	USP43
Calcium	7.0% ~ 8.5%	8.2%	USP43
Enantiomeric Impurity (D-5-methyltetrahydrofolate)	≤1.0%	0.1%	USP43
Total Related Compounds	≤2.5%	0.3%	USP43
4-Aminobenzoylglutamic Acid	≤0.5%	0.05%	USP43
4a-Hydroxy-5-Methyltetrahydrofolic Acid (6R and 6S) – Mefox	≤1.0%	0.05%	USP43
Tetrahydrofolic Acid	≤0.5%	Not Detected	USP43
7,8-Dihydrofolic Acid	≤0.5%	Not Detected	USP43
Folic Acid	≤0.5%	Not Detected	USP43
5,10-Methylenetetrahydrofolic Acid	≤0.5%	Not Detected	USP43
5-Methyltetrahydropteroic Acid	≤0.5%	0.05%	USP43
Dimethyltetrahydrofolic Acid	≤0.15%	Not Detected	USP43
Ethanol	≤0.5%	0.02%	USP43
Water Content	6.0% ~ 17.0%	14.5%	USP43
Chemical Control			
Total Heavy Metals (ppm)	≤10 ppm	Conforms	USP 43
Boron (ppm)	≤50 ppm	2.12 ppm	USP 43
Chloride	≤0.5 ppm	Not Detected	USP 43
Platinum (ppm)	≤10 ppm	Not Detected	USP 43
Arsenic mg/kg	≤1.0 ppm	Not Detected	USP 43
Lead mg/kg	≤1.0 ppm	Not Detected	USP 43
Total Mercury mg/kg	≤0.1 ppm	Not Detected	USP 43
Cadmium mg/kg	≤0.5 ppm	Not Detected	USP 43
Microbiological Control			
Total Plate Count	1000cfu/g Max	<10cfu/g	AOAC
Yeast & Mold	100cfu/g Max	<10cfu/g	AOAC
<i>Escherichia coli</i>	Negative/10g	Conforms	AOAC
<i>Pseudomonas Aeruginosa</i>	Negative/25g	Conforms	AOAC
<i>Salmonella species</i>	Negative/25g	Conforms	AOAC

Conclusion: The product has been tested and complies with the specification.

Package and Storage: Store in a well-closed container away from moisture and direct sunlight. 1kg/bag.

Analyst: Qingyi Zhang

Review: Hui Han

