

CERTIFICATE OF ANALYSIS

Product Name	L-5-Methyltetrahydrofolate Calcium	Batch Number	M20260613
CAS No.	151533-22-1	Manufacturer	20260613
Formula	C ₂₀ H ₂₃ CaN ₇ O ₆	Expiry Date	20290612
Batch Quantity	20kg	Report Date	20260620

ITEMS	SPECIFICATION	RESULTS	TEST METHOD
Parameter			
Assay(L-5-Methyltetrahydrofolate calcium)	95~102%	99.7%	HPLC
L-5-Methyltetrahydrofolate	≥75.0%	92.1%	HPLC
Physical&Chemical Data			
Appearance	White to light yellow crystalline powder	Visual	Visual
Identification	The retentiontime of the majorpeak in the chromatogram of the sample solution corresponds to that of the reference in the assay test IR	Conforms	HPLC
			HPLC
			HPLC
D-5-Methylfolate	NMT1%	0.1%	HPLC
Chloride	NMT0.5%	0.004%	HPLC
Calcium(on dry basis)	7~ 8.5%	8.2%	HPLC
Loss on Drying(Karl-Fischer)	6~17%	12.9%	HPLC
Elemental Impurities (B)	NMT50μg/g	Conforms	USP
Pt	NMT10μg/g	Conforms	USP
As	NMT1.5μg/g	Conforms	USP
Cd	NMT0.5μg/g	Conforms	USP
Pb	NMT1μg/g	Conforms	USP
Hg	NMT1.5μg/g	Conforms	USP
Contamination			
Residual Solvents	Ethanol≤5000ppm	116ppm	USP
	Acetone≤5000ppm	24ppm	USP
	Isopropyl alcohol≤5000ppm	Conforms	USP
Related Substances	4-aminobenzoyl-glutamic acid≤0.5%	Conforms	USP
	4a-Hydroxy-5-methyltetrahydro-folic acid≤1.0%	0.2%	USP
	(6R+6S)-Mefox≤1.0%	0.2%	USP
	Tetrahydrofolic acid≤0.5%	Conforms	USP
	7,8-dihydrofolic acid≤0.5%	Conforms	USP
	Folic acid not more than 0.5%	Conforms	USP
	5,10-methyltetrahydrofolic acid≤0.5%	Conforms	USP
	5-methyltetrahydropteroic acid≤0.5%	Conforms	USP
	Dimethyltetrahydrofolic acid≤0.15%	Conforms	USP
	Individual unknown impurity≤0.1%	0.05%	USP

	Total Impurities≤2.5%	0.4%	USP
Microbiological			
Aerobic bacteria total count	NMT1,000cfu/g	<10cfu/g	USP
Mold and yeast count	NMT100cfu/g	<10cfu/g	USP
Bile resistance of gram-negative bacteria	NMT100cfu/g	Conforms	USP
E.coli	N/D	Conforms	USP
Staphylococcus aureus	N/D	Conforms	USP
Salmonella	N/D	Conforms	USP
General Status	Non-GMO, Allergen Free, Non-Irradiation		
Packaging &Storage	Packed in food grade paper-drums and two plastic-bags N/W: 100g per tin Keep in cool & dry place. Stay away from strong sun light and heat		
Shelf Life	Three years		
Conclusion	Qualified		

