

## Certificate of analysis

### L-5-Methyltetrahydrofolate Calcium

CAS No.	151533-22-1	Code	BIOJMTF001
Batch No	F005-240308H	Manufacture Date	Mar.14, 2024
Retest Date	Mar.13, 2026	Quantity	500G

Testing Items		Specifications	Results
Appearance		White to light yellowish powder	White powder
Identification	IR	The IR spectrum of the sample corresponds to that of the reference standard	Complies
	HPLC	The retention time of the major peak in the chromatogram of the assay preparation corresponds to that in the chromatogram of standard preparation, as obtained in the assay	Complies
	Calcium salt	Should be positive	Complies
Calcium (on dry basis)		7.0%~8.5%	8.3%
Water		6.0%~17.0%	13.3%
Heavy metals		≤20ppm	Complies
Chloride		≤0.5%	<0.5%
Elemental impurities		Boron≤50μg/g	6.39μg/g
		Platinum≤10μg/g	<1ug/g
		Arsenic≤1.5μg/g	<0.010ug/g
		Cadmium≤0.5μg/g	<0.001ug/g
		Lead≤1.0μg/g	<0.05ug/g
		Mercury≤1.5μg/g	<0.003ug/g
D-5-Methylfolate		≤1.0%	0.08%
Residual solvents		Ethanol≤5000ppm	120ppm
		2-Propanol≤5000ppm	3.5ppm
Total plate count		≤1000 cfu/g	<1000 cfu/g
Yeast & Mold		≤100 cfu/g	<100 cfu/g
Salmonella		Absent	Absent
E. Coli		Absent	Absent
Staphylococcus aureus		Absent	Absent
Pseudomonas aeruginosa		Absent	Absent
Candida albicans		Absent	Absent
Clostridia		Absent	Absent

Related substances	Impurity a $\leq$ 0.5%	0.06%
	Impurity b $\leq$ 1.0%	N/D
	Impurity c+d $\leq$ 1.0%	0.09%
	Impurity e $\leq$ 0.5%	N/D
	Impurity f $\leq$ 0.5%	N/D
	Impurity g $\leq$ 0.5%	N/D
	Impurity h $\leq$ 0.5%	0.04%
	Impurity i $\leq$ 0.5%	0.05%
	Impurity j $\leq$ 0.15%	0.01%
	Total impurities $\leq$ 2.5%	0.63%
L-5-Methyltetrahydrofolate	72.0%~82.0%	80%
Assay	95.0%~102.0%(on anhydrous basis)	99.9%
Conclusion	This product conforms to USP43 standard	

**\*Storage: Store at 0~8°C, Protect from moisture and light.**