

CERTIFICATE OF ANALYSIS

| | | | |
|---------------------------|---|-------------------------|--------------------|
| Product Name | Calcium L-5-methyltetrahydrofolate | | |
| CAS | 151533-22-1 | | |
| Molecular Formula | C ₂₀ H ₂₃ CaN ₇ O ₆ | Molecular Weight | 497.52 (anhydrate) |
| Executive Standard | SM-004(MC)-CP-04/USP43 | | |
| Batch Number | 20250111 | Manufacture Date | 20250111 |
| Report Date | 20250111 | Expiry Date | 20250110 |

| Item of Analysis | | Specification | Results |
|---|---------|---|------------------------------|
| Appearance | | White to light yellow crystalline powder | Off-white crystalline powder |
| Identification | FT-IR | IR spectrum of sample should be consistent with that of Standard | Conform |
| | HPLC | The retention time of the major peak in the chromatogram of Assay preparation corresponds to that in the chromatogram of the standard preparation, as obtained in the Assay | Conform |
| Calcium content (on anhydrous substance) | | 7.0%~8.5% | 7.48% |
| D-5-Methylfolate | | ≤1.0% | ND |
| L-5-Methylfolate (on anhydrous substance) | | 89.0%~95.0% | 91.59% |
| Water content | | 6.0%~17.0% | 14.5% |
| Chloride content | | ≤0.5% | Conform |
| Arsenic | | ≤1.5ppm | Conform |
| Boron | | ≤10ppm | Conform |
| Cadmium | | ≤0.5ppm | Conform |
| Lead | | ≤1.0ppm | Conform |
| Mercury | | ≤0.1 ppm | Conform |
| Heavy metals | | NMT 20ppm | Conform |
| Mesh count | | 60 | Conform |
| Total plate count | | ≤1000cfu/g | Conform |
| Yeast and mold | | ≤25cfu/g | Conform |
| Escherichia Coli | | ND | Conform |
| Residual solvent | Ethanol | NMT 5000ppm | ND |
| Related Compounds (HPLC) | | | |
| Dimethyltetrahydrofolic acid | | ≤0.15% | 0.1% |
| 4-Aminobenzoylglutamic acid | | ≤0.5% | 0.2% |
| 4a-hydroxy-5-methyltetrahydrofolic acid | | ≤1.0% | 0.4% |

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|---------------------------------|--------------|-------|
| Folic acid | ≤0.5% | ND |
| Single impurity | ≤0.5% | 0.3% |
| Total impurities | ≤2.5% | 1.5% |
| Purity (HPLC) | 90.0%~100.0% | 98.5% |
| Assay on dried basis (HPLC) | 90.0%~102.0% | 99.0% |
| Conclusion: Conform to standard | | |

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

