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CERTIFICATE OF ANALYSIS

CALCIUM FOLINATE USP44 20221103 Nov 08, 2022 BATCH NUMBER TEST DATE 5.0kg Nov 05, 2022 **BATCH SIZE** MANUFACTURE DATE 5.0kg QUANTITY Nov 04, 2024 RETEST DATE SPECIFICATION TEST RESULT A white or light yellow powder; Microyellow crystalline Appearance: or amorphous powder; No visible evidence of contamination by foreign matter. conforms Identification: IR spectrum exhibits maxima only at the same wavelengths as that of a similar prearation of the USP reference standard. conforms B It gives reaction of Calcium. conforms C The retention time of the major peak of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay. conforms **Water Content** 11.9% Not More Than 17.0% Residual Solvent 1.Ethyl ether ≤1000ppm 0.2ppm 2.Ethanol ≤5000ppm 1979ppm Assay: 95.0% to105.0% of C20H21CaN7O7 99.3% Calculated on the anhydrous basis Related substances 1.5-Formyl-5.6.7.8-tetrahydropteroic acid ≤0.5% 0.007% 2.4-Aminobenzoylglutamic acid ≤1.5% 0.06% 3.10-Formyldihydrofolic acid ≤1.0% 0.05% 4.5,10-Diformyltetrahydrofolic acid ≤1.5% 0.1% ≤ 0.5% 5.7,8-Dihydrofolic acid 0.2% 6.10-Formylfolic acid $\leq 0.5\%$ 0.1% 7. Folic acid ≤ 1.5% 0.02% 8.Individual, unspecified impurities ≤ 0.3% 0.08% ≤ 2.5% 0.7% 9. Total impurities Microbiological control: conforms NMT1000cfu/g Total aerobic microbial count NMT100cfu/g conforms Molds and yeasts total count conforms NMT 0.5EU/mg **Bacterial Endotoxins**