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Certificate of Analysis

Product Name Methotrexate hydrate, USP grade

Glentham Code GA8916 **CAS Number** 133073-73-1 MDL Number MFCD00150847 Additional CAS 59-05-2

725GAB **Batch Number** Molecular Weight 454.44 (anhydrous)

 $C_{20}H_{22}N_8O_5 \cdot xH_2O$ Storage Temp.

Molecular Formula

Property Specification Batch 725GAB Physical Description Yellow to dark yellow-orange powder Yellow powder Identification (IR) To conform to standard Conforms to standard Identification (UV) To conform to standard Conforms to standard To pass USP limits Related Substances Conforms Any Unspecified Impurity ≤ 0.10% 0.04% **Total Impurities** ≤ 1.0% 0.4% **Enantiomeric Purity** ≤ 3.0% 1.6% Water ≤ 12.0% 9.5% Residue on Ignition ≤ 0.1% 0.08% 98.0 - 102.0 % Assay (anhydrous basis) 98.7% To conform to requirements of USP Residual Solvents Conforms Pharmacopoeia Specification(s) USP Conforms

Specification Version v1.0 Manufacture Date 2023-11-18 Re-Test Date 2030-11-30

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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