

CERTIFICATE OF ANALYSIS

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1. Identification

Product:

Structure:

Catalogue M260685 CAS 34378-65-9 Number: Number:

Synonym: N-[4-[[(2,4-Diamino-6-

pteridinyl)methyl]methylamino]benzoyl]-Lglutamic Acid Dimethyl Ester; Dimethyl Methotrexate; EP Methotrexate Impurity D;

Methotrexate EP Impurity J

Methotrexate Dimethyl Ester

Molecular weight: 482.49

Source of Product:

Molecular Formula: C22H26N8O5

Synthetic Solubility:

DMSO (Slightly), Methanol

(Slightly, Sonicated)

Lot 7-SWZ-72-1 Number:

This Product Is Stable To Be

Condition: Shipped At Room Temperature

Purity:

Storage Condition: -20°C

2. Warning

Shipping

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Light Yellow to Dark Red Solid Light Yellow Solid Appearance

NMR Conforms to Structure Conforms

HPLC Purity Report Result 98.96% (305 nm)

MS Conforms to Structure Conforms

Elemental Analysis Conforms %C: 51.58, %H: 5.54, %N: 21.77 Water Content Report Result ~3.9% based on Elemental Analysis

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

C of A Approved **Reviewed By Reviewed By Test Date Retest Date** By Chanell Chu Henry Tieu Toni Rantanen 11/4/2021 11/2/2031