

Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom

t: +44 (0) 1225 667 798 f: +44 (0) 2033 978 909 e: info@glentham.com w: www.glentham.com

## 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

 Batch Number
 886NXS

Molecular Weight 454.44 (anhydrous) Molecular Formula  $C_{20}H_{22}N_8O_5 \cdot xH_2O$ 

Storage Temp. -20°C

$H_2N$ $N$ $N$ $N$ $N$ $N$ $N$ $N$ $N$ $N$	HO
NH <sub>2</sub>	ОН

Property	Specification	Batch 886NXS
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
Related Substances	To pass USP limits	Conforms
Any Unspecified Impurity	≤ 0.10%	0.05%
Total Impurities	≤ 1.0%	0.25%
Enantiomeric Purity	≤ 3.0%	0.6%
Water	≤ 12.0%	9.6%
Residue on Ignition	≤ 0.1%	0.07%
Assay (anhydrous basis)	98.0 - 102.0 %	99.7%
Residual Solvents	To conform to requirements of USP	Conforms
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.0

Manufacture Date 2024-05-30

Re-Test Date 2030-11-12

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025

Page 1 of 1 Printed: 2025-04-21 17:47:36