

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-11 15:37:17

Date of Next Testing: 2027-05-11 15:37:17

Product Name: **Methotrexate hydrate**

CAS Number: 133073-73-1

Specifications & Purity: PharmPure™, USP

Lot #: E2406433

SKU #: **M476589**

Version: **2**

Analysis #: **334182**

Storage Temperature: Protected from light, Store at -20°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-12 (%)	11.59 %
Assay (Anhydrous Basis)	98-100 (%)	99.63 %
specific rotation [α] _{20/D} (c=10mg/ml in 0.05M sodium carbonate)	19-24 (°)	19.10000 °
Residue on ignition(Ash)	0-0.1 (%)	0.00000 %
Related Compounds(Any unspecific impurity)	≤0.10 (%)	0.08300 %
Related Compounds(Total impurities)	≤1.0 (%)	0.41000 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Related Compounds(Individual impurities)	Pass	Pass



John Su
QA & QC Manager