

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-11 15:38:17
Date of Next Testing: 2027-05-11 15:38:17
Product Name: **Methotrexate hydrate**
CAS Number: 133073-73-1
Specifications & Purity: PharmPure™, USP
Lot #: E2406431
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 $[\alpha]_{20/D}(c=10\text{mg/ml in } 0.05\text{M sodium carbonate})$	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