

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-24 11:01:56

Date of Next Testing: 2029-12-23 11:01:56

Product Name: **Methotrexate hydrate**

CAS Number: 133073-73-1

Specifications & Purity: $\geq 99\%$

Lot #: B2226220

SKU #: **M111239**

Version: **0**

Analysis #: **624165**

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

Parameter	Limit Values	Result
Ignition Residue(Ash)	0-0.1 (%)	0.05000 %
Water by Karl Fischer	$\leq 12(\%)$	0.22700 %
Specific Rotation $[\alpha]_{20/D}(c=10\text{mg/ml in } 0.05\text{M NaOH})$	19-24 (°)	19.02000 °
Purity(HPLC)	99-100 (%)	99.87000 %
Appearance (M111239)	Yellow to Yellow-Orange Powder	Yellow to Yellow-Orange Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1 M NH ₄ OH , Yellow to Orange Clear(50 mg + 1 ml)	pass	Pass



John Su
QA & QC Manager