

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-02-16 16:33:24
Date of Next Testing: 2026-02-15 16:33:24
Product Name: **Methotrexate hydrate**
CAS Number: 133073-73-1
Specifications & Purity: 99%
Lot #: B2210133
SKU #: **M111239**
Analysis: 074603
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Ignition Residue(Ash)	0-0.1 (%)	0.05 %
Water by Karl Fischer	≤12 (%)	6.80 %
Specific Rotation [α] ₂₀ /D(c=10mg/ml in 0.05M NaOH)	19-24 (°)	19.74°
Purity(HPLC)	99-100 (%)	99.76700 %
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