

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-10-29 09:51:50
 Date of Next Testing: 2026-10-29 09:51:50
 Product Name: **Cefsulodin Sodium Salt Hydrate**
 CAS Number: 52152-93-9
 Specifications & Purity: $\geq 95\%$ (HPLC)
 Lot #: J2422393
 SKU #: **C136645**
 Version: **0**
 Analysis #: **345523**
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	95-100 (%)	98.00000 %
Water by Karl Fischer	0-10 (%)	8.72000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$	16.5-20 (°)	19.20000 °
Carbon by Elemental Analysis(anhydrous)	44.7-48.1 (%)	45.17000 %
Nitrogen by Elemental Analysis (anhydrous)	9.1-10.6 (%)	9.25200 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance (C136645)	Off-White to Light Yellow Powder	Off-White to Light Yellow Powder



John Su
QA & QC Manager