

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-29 15:29:41
Date of Next Testing: 2025-11-28 15:29:41
Product Name: **DL-Norepinephrine Hydrochloride**
CAS Number: 55-27-6
Specifications & Purity: 97%
Lot #: K2323203
SKU #: **D134211**
Analysis: 232996
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	6.5-7.1 (%)	6.84 %
Water by Karl Fischer	0-4.2 (%)	0.91 %
Carbon by Elemental Analysis	45.6-47.9 (%)	46.51 %
Purity(HPLC)	97-100 (%)	99.62200 %
Appearance (D134211)	Off-white to tan crystals,powder or chunks	Off-white to tan crystals,powder or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Faint Yellow to Yellow-Brown,Clearpass to Hazy,50mg/ml		Pass



John Su
QA & QC Manager