

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-08-20 13:55:07
 Date of Next Testing: 2029-08-19 13:55:07
 Product Name: **Noradrenaline bitartrate monohydrate**
 CAS Number: 108341-18-0
 Specifications & Purity: PharmPure™, USP, ≥98%(HPLC)
 Lot #: K2108162
 SKU #: **N107258**
 Version: **0**
 Analysis #: **557208**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=5 in H ₂ O)	-12--10 (°)	-10.58600 °
Water by Karl Fischer	4.5-5.8 (%)	5.30000 %
Ignition Residue(Ash)	0-0.1 (%)	0.00000 %
Limit of Arterenone	0-0.2 (%)	0.10800 %
Assay (Anhydrous Basis)	98-102 (%)	98.54100 %
Appearance (N107258)	White to Off-White Powder	White to Off-White Powder
Identity	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility, Colorless to faint yellow, clear (50 mg/mL, H ₂ O)	pass	Pass



John Su
QA & QC Manager