

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-10-18 10:57:06
Date of Next Testing:	2027-10-17 10:57:06
Product Name:	<b>Noradrenaline bitartrate monohydrate</b>
CAS Number:	108341-18-0
Specifications & Purity:	≥98% (HPLC),USP
Lot #:	J2312519
SKU #	<b>N107258</b>
<b>Analysis:</b>	<b>287088</b>
Storage Temperature:	Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=5 in H <sub>2</sub> O)	-12--10 (°)	-10.04°
Water by Karl Fischer	4.5-5.8 (%)	5.72%
Ignition Residue(Ash)	0-0.1 (%)	0.04%
Limit of Arterenone	0-0.2 (%)	0.00%
Assay (Anhydrous Basis)	98-102 (%)	99.91%
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 <sub>2</sub> O)	pass	Pass



John Su  
QA & QC Manager