

## Certificate of Analysis

Date of Testing: 2023-05-08 17:00:26

Date of Next Testing: 2027-05-07 17:00:26

Product Name: **Noradrenaline bitartrate monohydrate**

CAS Number: 108341-18-0

Specifications & Purity: ≥98% (HPLC),USP

Lot #: D2324765

SKU #: **N107258**

**Analysis: 202877**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Limit of Arterenone	0-0.2 (%)	0.10 %
Specific Rotation [α] <sub>20</sub> /D(c=5 in H <sub>2</sub> O)	-12--10 (°)	-11.95°
Water by Karl Fischer	4.5-5.8 (%)	5.64 %
Ignition Residue(Ash)	0-0.1 (%)	0.00 %
Assay (Anhydrous Basis)	98-102 (%)	98.02 %
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