

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-29 13:09:21

Date of Next Testing: 2027-03-28 13:09:21

Product Name: **Betaine Hydrochloride**

CAS Number: 590-46-5

Specifications & Purity: $\geq 99\%$

Lot #: C2324325

SKU #: **B113358**

Version: **1**

Analysis #: **173852**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	98.5-101.5 (%)	101.47000 %
Ignition Residue(Ash)	0-0.1 (%)	0.03200 %
pH	0.8-1.2	1.13700
Heavy metals	0-0.001 (%)	0.00000 %
(As)Arsenic	0-2 (ppm)	0.00000 ppm
Water content	0-0.5 (%)	0.00000 %
Appearance (B113358)	White Powder or Crystals	White Powder or Crystals
Clear colorless solution(50mg/ml,water)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager