

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-23 10:32:43
Date of Next Testing: 2028-01-22 10:32:43
Product Name: **Betaine Hydrochloride**
CAS Number: 590-46-5
Specifications & Purity: $\geq 99\%$
Lot #: A2416186
SKU #: **B113358**
Version: **1**
Analysis #: **310006**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Ignition Residue(Ash)	0-0.1 (%)	0.06000 %
Heavy metals	0-0.001 (%)	0.00000 %
(As)Arsenic	0-2 (ppm)	0.00000 ppm
Water content	0-0.5 (%)	0.00000 %
pH(2.5g in 10ml H ₂ O, 25°C)	0.8-1.2	0.83000
Purity(Titration by AgNO ₃)	98.5-101.5 (%)	101.42000 %
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