

Aladdin warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Aladdin-e.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

## Specification Sheet

Product Name: **Betaine**  
Specifications & Purity: 99%, Ultra pure,  $\geq 99.0\%$   
SKU #: **B105556**

Parameter	Limit Values
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-200 (ppm)
Water by Karl Fischer	0-1 (%)
Purity(Nonaqueous Titration)	99-101 (%)
Magnesium (Mg)	0-5 (ppm)
Potassium(K)	0-50 (ppm)
Chloride (Cl <sup>-</sup> )	0-200 (ppm)
UV Absorbance A 1M/280nm, mEtOH	0-0.05
Sodium(Na)	0-100 (ppm)
Cobalt (Co)	0-5 (ppm)
(Pb)Lead	0-5 (ppm)
Cadmium(Cd)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Chrome(Cr)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Nickel(Ni)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
UV Absorbance A 1M/260nm, mEtOH	0-0.09
Appearance (B105556)	White to Off-White Powder
Infrared spectrum	Conforms to Structure
Insoluble matter	pass
Solubility in MeOH , soluble 1 M at 20 °C, clear, colorless	pass

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