

Certificate of Analysis

Product Name:	Betaine Anhydrous (TMG)
Starting Material(s):	Chloroacetic Acid, Liquid Sodium Hydroxide, Trimethylamine
Residual Solvents:	None
Carriers:	None
Country of Origin:	China
Batch Number:	Varies
Manufacture Date:	Varies
Retest Date:	Varies

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Betaine Anhydrous (HPLC)	≥98%	100.72%
Betaine (Identification) (HPLC)	Positive	Positive <conforms> Sample peak retention time compares positively to standard peak retention times within ± 10%
Loss on Drying (USP<731>)	≤2.0%	0.62%
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
<i>E. Coli</i>	≤10 cfu/g	Absent
<i>Staph aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<20 cfu/g
<i>Salmonella</i>	Negative	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White powder or crystal	Conforms
pH (10% Solution)	5.0-7.0	6.09
Heavy Metals	≤10.0 ppm	<10.0 ppm
Arsenic (As)	≤1.0 ppm	<1.0 ppm
Residue on Ignition	≤0.1%	0.080%
Shigella	Negative	Conforms
Lead (Pb)	≤0.3 ppm	Conforms
Cadmium (Cd)	≤0.3 ppm	Conforms
Chromium	≤0.3 ppm	Conforms
Mercury (Hg)	≤0.1 ppm	Conforms
Particle Size	100% through 20 mesh	Conforms
Solubility	Soluble in water, 160 g/100ml (20°C)	Conforms
Conclusion (Manufacturer):	This product conforms to enterprise standards	

Additional Information:	Allergen Free BSE/TSE Free Gluten-Free Vegan
GMO Statement:	Non-GMO
Storage Conditions:	Keep in sealed container under 25°C. Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson

(This document was produced electronically and is valid without signature.)