



JINAN JUAN ESTER CHEMICAL CO.,LTD.
SHUIZHAI VILLAGE,SHUIZHAI TOWN,ZHANGQIU CITY,SHANDONG,CHINA
TEL:0086-531-82687186 FAX: 0086-531-82687186
Http:// www.pengbobio.com E-mail:info@pengbobio.com

CERTIFICATE OF ANALYSIS

Product Name :	Betaine Nitrate	Country of Origin:	China
Batch No.:	20180201	Quantity:	2500Kg
Manufacture Date:	2018.02.01	Report Date:	2018.02.03
Expiry Date:	2020.01.31	Standard:	In-house standard

Item	Specification	Results	Test Method
Appearance	White crystalline powder	Conform	Visual
Assay (on a dry basis)	98-102%	99.62%	Titration
Loss on Drying	NMT 1%	0.24%	Drying(105°C 3h)
pH(10% aqua):	0.8-1.3	1.14	pH meter
Residue on Ignition	NMT 0.1%	0.02%	Electric furnace(550°C)
Heavy Metals	NMT 10 ppm	Conform	Colorimetric method
Arsenic	NMT 2 ppm	Conform	ICP
Lead	NMT 2 ppm	Conform	ICP
Total Plate Count	NMT 1000 CFU/g	Conform	Viable plate count
Yeast and Mold	NMT 100 CFU/g	Conform	Viable plate count
E.coli	Negative/10g	Conform	USP<62>
Salmonella	Negative/25g	Conform	USP<62>
Staphylococcus	Negative/10g	Conform	USP<62>
Bulk Density	0.7-0.9g/ml	0.75g/mL	USP<616>
Tapped Density	0.8-1.0g/ml	0.84g/mL	USP<616>
Particle Size	Through 20 mesh	100%	Sieving

Conclusion:

The test results correspond to In-house standard.

Packing: 25kg/Fiber Drum with two PE liners inside.

Storage: Preserve in original containers in a cool, dry and well ventilated area.

JINAN JUAN ESTER CHEMICAL CO., LTD.