



JINAN JIUAN ESTER CHEMICAL CO.,LTD.
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CERTIFICATE OF ANALYSIS

Product Name :	Betaine Anhydrous	Country of Origin:	China
Batch No.:	20170706	Quantity:	500Kg
Manufacture Date:	2017.07.28	Package:	25Kg/Drum
Expiry Date:	2019.07.27	ReferenceStandard:	USP

Item	Specification	Results	Test Method
Appearance	White crystalliner powder	Conform	Visual
Assay(on dry basis)	NLT 99.0%	99.21%	USP<541>
Loss on Drying	NMT 2%	1.40%	USP<731>
pH(10% aqua):	5.0-7.0	6.49	USP<791>
Chloride:	NMT 0.01%	Conform	USP<221>
Sulphate:	NMT 0.01%	Conform	USP<221>
Residue on Ignition	NMT 0.1%	0.02%	USP<281>
Heavy Metals	NMT 10 ppm	Conform	USP<231>
Arsenic	NMT 1ppm	Conform	USP<730>
Lead	NMT 1ppm	Conform	USP<730>
Mercury	NMT 0.2 PPM	Conform	USP<730>
Cadmium	NMT 0.2 PPM	Conform	USP<730>
Chromium	NMT 0.2 PPM	Conform	USP<730>
Total Plate Count	NMT 1000cfu/g	Conform	USP<61>
Yeast and Mold	NMT 100cfu/g	Conform	USP<61>
E.coli	Negative	Conform	USP<62>
Salmonella	Negative	Conform	USP<62>
Staphylococcus	Negative	Conform	USP<62>
Particle Size	Thru20 mesh	100%	USP<786>

Conclusion:

The test results correspond to pharmaceutical grade of in-house Standard.

Li min
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质量检验专用章