



武汉福鑫化工有限公司

Wuhan Fortuna Chemical Co.,Ltd

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CERTIFICATE OF ANALYSIS

Products Name	CAS NO.	Batch No.
Betaine hydrochloride	590-46-5	20240716
Mfg. Date	Exp. Date	Package
Jul.,16,2024	Jul., 15,2027	25kg/ Box/Bag/Drum

ITEMS	SPECIFICATIONS	RESULTS
Infrared Spectrum	Passes USP Test	Conform
Clarity of Solution	Clear	Conform
Appearance	White Crystal	Conform
Assay	98.0%-100.5%	99.74%
Water	NMT 0.5%	0.11%
pH(1 in 4)	0.8-1.2	0.82.
Residue on Ignition	NMT 0.1%	0.03%
Heavy Metals	NMT 10 ppm	Conform
Lead	NMT 1 ppm	Conform
Arsenic	NMT 1 ppm	Conform
Cadmium	NMT 0.2 ppm	Conform
Mercury	NMT 0.1 ppm	Conform
Total Plate Count	NMT 1000 cfu/g	Conform
Yeast and Mold	NMT 100 cfu/g	Conform
E. coli	Negative/10g	Conform
Salmonella	Negative/25g	Conform
Staphylococcus	Negative/10g	Conform
Bulk Density	0.60-0.80g/ml	0.67g/ml

Tapped Density	0.82g/ml
Particle Size Through 20 mesh	100%
Through 40 mesh	44.46%
Through 60 mesh	11.08%
Through 80 mesh	2.69%
Through 100 mesh	0.75%
Conclusion	QUALIFIED.

Q.C.: Luo Xiaofeng

Tester: AT02

Re-tester: AT03

