



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

Product Name :	Hydroxyethyl urea	Country of Origin:	China
Batch No.:	20170502	Quantity:	500Kg
Manufacture Date:	2017.05.10	Package:	25Kg/Drum
Expiry Date:	2019.05.09	Standard:	In-house standard

Item	Specification	Results	Test Method
Appearance	White crystalline granular powder	Conform	Visual
Assay (on a dry basis)	NLT 99%	99.22%	HPLC
Melting point	92-96°C	94.2-95.6	Capillarymethod
Loss on Drying	NMT 1.0%	0.18%	85°C 2h,105°C 1h
pH(10% aqua):	6.0-10.0	6.90	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	Colorimetric method
Lead	NMT 2 PPM	Conform	Colorimetric method
Total Plate Count	NMT 1000cfu/g	Conform	Viable plate count
Yeast and Mold	NMT 100cfu/g	Conform	Viable plate count
Particle Size	Through 20 mesh	100%	Sieving

### Conclusion:

The test results correspond to In-house standard.

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