



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 :	Calcium pyruvate	Country of Origin:	China
Batch No.:	20161104	Quantity:	1000Kg
Manufacture Date:	Nov.18, 2016	Package:	25Kg/Drum
Expiry Date:	Nov.17, 2018	Standard:	In-house standard

Item	Specification	Results	Test Method
Appearance	White crystalline powder	Conform	Visual
Assay (on a dry basis)	NLT 98%	98.26%	USP<541>
Loss on Drying	NMT 10%	7.82%	USP<731>
Calcium Ion	NLT 15%	15.20%	USP<541>
Acidic Radical	NLT 60%	64.61%	USP<541>
Heavy Metals	NMT 10 PPM	Conform	USP<231>
Lead	NMT 2 PPM	Conform	USP<730>
Arsenic	NMT 2 PPM	Conform	USP<730>
Total Plate Count	NMT 1000cfu/g	Conform	USP<61>
Yeast and Mold	NMT 100cfu/g	Conform	USP<61>
Bulk Density	0.5-0.9g/ml	0.88g/ml	USP<616>
Particle Size	Thru 40 mesh	100%	USP<786>

Conclusion:

The test results correspond to In-house standard.

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