



## Certificate of Analysis

**Product Name:** Magtein®  
**Product Code:** T0700  
**Batch #:** SM-201703007  
**Manufacture Date:** March 4, 2017  
**Expiration Date:** March 3, 2020  
**Country of Origin:** China

<u>Physical</u>	<u>Specification</u>	<u>Result</u>	<u>Method</u>
Appearance	White to off-white powder	White powder	Visual
Odor	Characteristic	Characteristic	Organoleptic
Taste	Characteristic	Characteristic	Organoleptic
Solubility	Water soluble	Conforms	Visual (1% at 25°C)
Color of solution	Clear	Conforms	Visual (1% solution)
Bulk density	NLT 0.4 g/cc	Conforms	Loose fill in graduated cylinder
Particle size	NLT 90% thru a US # 20 NMT 60% thru a US # 200	100.0% 38%	Ro Tap (3 min.)
Identification	Conforms to standard	Conforms	IR
Loss on drying	NMT 5.0%	0.2%	105°C, 4 hours
<u>Analytical</u>			
Assay	98.0% - 102.0%	101.2%	Titration
Magnesium	7.2% - 8.3%	7.8%	Titration
Residual Solvents (ethanol)	NMT 5000 ppm	Conforms	USP
pH	5.8 - 7.0	6.6	USP (1% in H <sub>2</sub> O)
Arsenic	NMT 1.0 ppm	0.029 ppm*	ICP-MS
Mercury	NMT 0.2 ppm	< 0.001 ppm*	ICP-MS
Lead	NMT 0.5 ppm	0.004 ppm*	ICP-MS
Cadmium	NMT 0.2 ppm	< 0.001 ppm*	ICP-MS
<u>Microbiology</u>			
Total plate count	NMT 3000 cfu/g	< 10 cfu/g	USP
Yeast & mold	NMT 300 cfu/g	< 10 cfu/g	USP
E.coli	Negative	Negative	USP
Salmonella	Negative	Negative	USP

\* Heavy Metals testing by 3<sup>rd</sup> party lab, Advanced Lab, USA.

*Lucy Zhang*

Approved by: Lucy Zhang  
 5/23/2017, 5:30 pm

Storage: keep in closed container, away from excess heat and light  
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