

Certificate of Analysis

Product	Magnesium Oil, USP	
Appearance	Crystal Clear Liquid	
Lot Number	239	Date January 1, 2010
Testing Method	Monograph USP XXXII	

<i>TEST</i>	<i>REQUIREMENTS</i>	<i>TEST RESULTS</i>
Identification A (for magnesium) ³	To Pass Test ⁴	Pass
Identification B (for chloride) ³	To Pass Test ⁴	Pass
pH ³	4.5 - 7.0	6.3
Insoluble Matter	.005% Max	<.005%
Aluminum ^{1,2}	.67 ppm	<.046 ppm
Barium	To Pass Test	Pass
Calcium	.01% Max	0.0056%
Potassium	To Pass Test	Pass
Sulfate	.005% Max	<.005%
Heavy Metals ³	.001% Max	<.001%
Organic Volatile Impurities	Certified Free	Free
Iron	To Pass Test	Pass
Assay (as liquid Magnesium Chloride)	28.1 - 31.3%	29.30%

Specific Gravity 1.27

NOTES

¹ Alternate ICP (Inductively Coupled Plasma Optical Emission Spectrometer) procedure used for detection of aluminum.

² Aluminum limit revised for liquid with lower detection limit of 0.67 ppm.

³ Tests performed on material as if hexahydrate (sample weights were increased to compensate for decreased concentration).

⁴ Pass / Fail against USP Standards

⁵ The Validation process for this instrument is a several week process which validates the installation; operation and performance of the instrument...for accuracy, precision, interferences, and detection limits filtered through 1 micron

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