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Certificate of Analysis

Product Description: Magnesium Sulfate Heptahydrate, ACS
Catalog Number: 191422
Lot: MR29744**Formula:** $MgSO_4 \cdot 7H_2O$
CAS #: 10034-99-8
Physical Description: White Crystalline Powder**Formula Weight:** 246.47
Storage: Room Temperature

Test	Specification	Result
Assay	98.0 - 102.0%	100.32%
pH (5% aq soln)	5.0 - 8.2	6.76
Insoluble Matter	≤0.005%	0.003%
Chloride (Cl)	≤5 ppm	<5 ppm
Nitrate (NO ₃)	≤0.002%	0.002%
Ammonium (NH ₄)	≤0.002%	<0.002%
Calcium (Ca)	≤0.02%	0.0005%
Manganese (Mn)	≤5 ppm	2 ppm
Potassium (K)	≤0.005%	0.0015%
Sodium (Na)	≤0.005%	0.0015%
Strontium (Sr)	≤0.005%	0.0015%
Heavy Metals (Pb)	≤5 ppm	<5 ppm
Iron (Fe)	≤5 ppm	<5 ppm

Moisture: 37.78%**Loss on Ignition:** 49.28%**Selenium:** Not Detected**Lead:** 2.0 mg/kg**Organic Volatile Impurities:** Passes**Residual Solvents:** Solvent other than water was not used during production or purification process of the product.

Christina Marotta

10/02/2012 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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