



**MP Biomedicals, LLC**

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## Certificate of Analysis

**Product Description:** Magnesium Sulfate Heptahydrate, molecular biology reagent  
**Catalog Number:** 194833  
**Lot:** SR03556

**Formula:** MgSO<sub>4</sub>·7H<sub>2</sub>O

**CAS #:** 10034-99-8

**Physical Description:** White Crystalline Powder

**Formula Weight:** 246.47

**Storage:** 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	#99%	100.36%
Moisture	Report Result	35.03%

Solubility: Very soluble in boiling water, freely soluble in water, freely (and slowly) soluble in glycerin, sparingly soluble in alcohol

Assay (on ignition basis): 100.31%

pH (5% aq soln, 25°C): 7.41

Insoluble Matter: 0.003%

Chloride (Cl): <5 ppm

Nitrate (NO<sub>3</sub>): <0.002%

Ammonium (NH<sub>4</sub>): <0.002%

Calcium (Ca): 0.0052%

Manganese (Mn): 2 ppm

Potassium (K): 0.0018%

Sodium (Na): 0.0012%

Strontium (Sr): 0.0014%

Heavy Metals (as Pb): <5 ppm

Iron (Fe): <5 ppm

Lead (Pb): 1.5 mg/kg

Selenium (Se): <30 ug/g

Loss on ignition (450 +/- 25°C): 51.38%

Recommended Retest Date (MM/DD/YYYY): 06/24/2022

12/12/2020 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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