

**MP Biomedicals, LLC**29525 Fountain Parkway  
Solon, Ohio 44139Telephone: 440/337-1200  
Toll Free: 800/854-0530

## Certificate of Analysis

**Product Description:** Aluminum Sulfate Hydrate, ACS  
**Catalog Number:** 191403  
**Lot:** Q6123**Formula:**  $\text{Al}_2(\text{SO}_4)_3 \cdot (14-18)\text{H}_2\text{O}$   
**CAS #:** 17927-65-0  
**Physical Description:** White Powder**Formula Weight:** 342.10 (anhyd)  
**Storage:** 15 - 30°C

| Test                 | Specification | Result  |
|----------------------|---------------|---------|
| Assay                | 98.0 - 102.0% | 101.8%  |
| Insoluble Matter     | ≤0.01%        | <0.002% |
| Chloride Content     | ≤0.005%       | ≤0.005% |
| Calcium              | ≤0.01%        | 0.005%  |
| Magnesium            | ≤0.002%       | <0.001% |
| Potassium            | ≤0.005%       | <0.003% |
| Sodium               | ≤0.02%        | 0.01%   |
| Heavy Metals (as Pb) | ≤0.001%       | ≤0.001% |
| Iron (Fe)            | ≤0.002%       | ≤0.002% |

Recommended Retest Date: 06/30/2021

03/01/2017 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control ManagerThis is an electronically generated document  
<mailto:biotech@mpbio.com>  
<http://www.mpbio.com>Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site  
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)