

# CERTIFICATE OF ANALYSIS

Product Description AMMONIUM SULFATE  
ACS REAGENT  
Product Number A305  
Lot Number 13J0305011  
Storage Temperature Room Temperature  
Molecular Weight 132.14  
Formula  $(\text{NH}_4)_2\text{SO}_4$   
CAS Number 7783-20-2

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION  | RESULTS                 |
|--|--|-------------------------|
| Solubility                               | Soluble in Water   | Passes                  |
| pH (0.50 g/L)                            | 4.89 – 5.89  | 5.5                     |
| Physical Appearance<br>Color*<br>Texture | RM-1 to RM-3, or RM-31<br>Crystalline Powder to Crystals | RM-31 White<br>Crystals |
| Solution Appearance<br>Clarity<br>Color  | Clear<br>Colorless                                       | Clear<br>Colorless      |
| Average Time to Dissolve                 | Within 5 min   | Passes                  |
| Insolubles                               | None   | Passes                  |
| Purity                                   | Minimum 99.0%  | 99.70%                  |
| Heavy Metals (as Pb)                     | For Information Only                                     | <0.0005%                |

\* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

## Biological Testing:

Test Concentration: 500 mg/L

| TEST SPECIFICATION   | PLANT CELL LINE | RESULTS |
|--|-----------------|---------|
| Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants | Boston Fern     | Passes  |
|  | Dianthus        | Passes  |

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Recommended Shelf Life Date: September 2021



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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