

# CERTIFICATE OF ANALYSIS

Product Description AMMONIUM NITRATE,  
CRYSTALLINE  
Product Number A300  
Lot Number HXT0300214  
Storage Temperature Room Temperature  
Molecular Weight 80.04  
Formula  $\text{NH}_4\text{NO}_3$   
CAS Number 6484-52-2

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION                                  | RESULTS                          |
|--|--|----------------------------------|
| Solubility                               | Soluble in Water @ 1.60 g/L                    | Passes                           |
| pH (1.60 g/L)                            | 4.7 – 5.8                                      | 5.4                              |
| Physical Appearance<br>Color*<br>Texture | PM-1 to PM-4<br>Crystalline Powder to Crystals | PM-1 White<br>Crystalline Powder |
| Solution Appearance<br>Clarity<br>Color  | Clear<br>Colorless                             | Clear<br>Colorless               |
| Insolubles                               | None   | Passes                           |
| FTIR                                     | Conforms to Structure                          | Passes                           |
| Purity                                   | Minimum 95.0%                                  | 99.30%                           |

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

## Biological Testing:

Test Concentration: 1.60 g/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 | Perilla Fantasy       | Passes  |
|  | Xanthi Tobacco Callus | Passes  |

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

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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.**

Date of Release: 25-August-2025

Recommended Shelf-Life Date: August 2033

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