

CERTIFICATE OF ANALYSIS

Product Description CALCIUM NITRATE, TETRAHYDRATE
CRYSTALLINE
Product Number C180
Lot Number HYT0180054
Storage Temperature Room Temperature
Molecular Weight 236.15
Formula Ca(NO₃)₂•4H₂O
CAS Number 13477-34-4

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|---------------------|------------------------------|-----------|
| Solubility | Soluble in Water @ 100 mg/mL | Passes |
| pH | Under Development | 6.0 |
| Physical Appearance | | |
| Color | Colorless | Colorless |
| Texture | Crystals | Crystals |
| Solution Appearance | | |
| Clarity | Clear | Clear |
| Color | Colorless | Colorless |
| Insolubles | None | Passes |
| FTIR | Conforms to Structure | Passes |
| Purity | Minimum 99.0% | 100.36% |
| Atomic Absorption | Under Development | 0.353 AU |

Biological Testing:

Test Concentration: 400.0 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 | Parrot Feather | Passes |
| | Xanthi Tobacco Callus | Passes |

This product is synthetic. No animal-derived components were used in the manufacture of this product, and it is free from Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE). PhytoTech Labs Inc. does not use melamine, and is not a component in raw materials used to manufacture products with.

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: 21-February-2025

Recommended Shelf-Life Date: February 2033

Prepared by: 
Alex Lambert
Lead Quality Control Laboratory Technician