

CERTIFICATE OF ANALYSIS

Product Description D-(+) MANNOSE
Product Number M486
Lot Number HEY0486022
Storage Temperature Room Temperature
Molecular Weight 180.16
Formula C₆H₁₂O₆
CAS Number 3458-28-4

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--|---|---------------------------|
| Solubility | Soluble in Water @ 100 mg/mL | Passes |
| pH | Under Development | 7.0 |
| Physical Appearance Color* Texture | PM-1 to PM-4 Fine Powder | PM-4 White Fine Powder |
| Solution Appearance Clarity Color | Clear Colorless | Clear Colorless |
| Average Time to Dissolve | For Information Only (Approx. 3 min) | Passes |
| Insolubles | None | Passes |
| FTIR | Conforms to Structure | Passes |
| Purity by HPLC | Minimum 98.0% | 99.60% |

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

Biological Testing:

Test Concentration: 1.0 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 | Dianthus Arctic Fire | Passes |
| | 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: 15-October-2021

Recommended Shelf Life Date: October 2029



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