

CERTIFICATE OF ANALYSIS

Product Description D-BIOTIN
Product Number B140
Lot Number 13J0140017
Storage Temperature Room Temperature
Molecular Weight 244.31
Formula $C_{10}H_{16}N_2O_3S$
CAS Number 58-85-5

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--|---------------------------------------|---------------------------|
| Solubility | Soluble in 1N KOH @ 10 mg/mL | Passes |
| Physical Appearance Color* Texture | PM-1 to PM-4 Fine to Coarse Powder | PM-4 White Fine Powder |
| Solution Appearance Clarity Color | Clear Colorless | Clear Colorless |
| Average Time to Dissolve | Within 15 min | Passes |
| Insolubles | None | Passes |
| FTIR | Conforms to Structure | Passes |
| Purity | Minimum 97.5% | 99.20% |

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

Biological Testing:

Test Concentration: 10 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 | Ajuga | Passes |
| | African Violet | 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: 2-July-2020

Recommended Shelf Life Date: July-2025



David S. Hart
Technical Services Manager

PhytoTech Labs Inc.
14610 W 106TH St. Lenexa, KS 66215
Phone: 1-888-749-8682 or 1-913-341-5343
Fax: 1-888-449-8682 or 1-913-341-5442
Phytotechlab.com