

# CERTIFICATE OF ANALYSIS

Product Description      INDOLE-3-BUTYRIC ACID  
IBA; 4-[3-INDOLYL]BUTYRIC ACID  
Product Number          I538  
Lot Number                15L0538022  
Storage Temperature      2-6 °C  
Molecular Weight        203.24  
Formula                    C<sub>12</sub>H<sub>13</sub>NO<sub>2</sub>  
CAS Number                133-32-4

## **Physiochemical Specifications:**

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1N KOH @ 1 mg/mL	Passes
Physical Appearance Color*	2156-60 to 2162-60 or 2156-70 to 2162-70, PM-1 to PM-4	2158-60 Tan
Texture	Fine to Crystalline Powder	Fine Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 1 min)	1 min
Insolubles	None	Passes
FTIR	Conform to Structure	Passes
Purity by HPLC	Minimum 98%	99.25%
Loss on Drying	For Information Only	0.23%

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

## **Biological Testing:**

Test Concentration: 2.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates shoot growth and/or rooting/callus formation in two or more plant tissue culture lines at 1 mg/mL with no morphological aberrations to plants	African Violet	Passes
	Sugar Cane	Passes

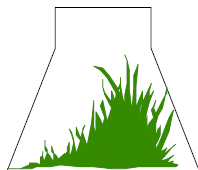
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**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: November 2020



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