CERTIFICATE OF ANALYSIS

Product Description   INDOLE-3-BUTYRIC ACID
                                 IBA; 4-[3-INDOLYL]BUTYRIC ACID

Product Number   I538
Lot Number   HKY0538030
Storage Temperature   2-8°C
Molecular Weight   203.24 g/mol
Formula $C_{12}H_{13}NO_2$
CAS Number   133-32-4

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1N KOH @ 1 mg/mL	Passes

Physical Appearance
   Color*
 	
   Texture
	
	2156-60 to 2162-60 or
	2156-70 to 2162-70,
	PM-1 to PM-4
	Fine to Crystalline Powder
		
		2161-70 Cream
		
		Crystalline Powder

Solution Appearance
   Clarity
   Color
	
	Clear
	Colorless
		
		Clear
		Colorless

Average Time to Dissolve	For Information Only (Approx. 1 min)	Passes
Insolubles	None	Passes
FTIR	Conform to Structure	Passes
Purity by HPLC	Minimum 98%	98.62%
Loss on Drying	For Information Only	0.25%

* 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	Achimenes	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: 17-May-2021
Recommended Shelf Life Date: May 2026

David S. Hart
Technical Services Manager