## **CERTIFICATE OF ANALYSIS**

Product Description Spermidine, Free Base

N-(3-AMINOPROPYL)-1,4-BUTANEDIAMINE

Product Number S837

Lot Number HXX0837017

Storage Temperature 2-8 °C

Molecular Weight 145.25Formula  $C_7H_{19}N_3$ CAS Number 124-20-9

## **Physiochemical Specifications:**

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 1.45 mg/mL	Passes
pН	Under Development	11.5
Physical Appearance		
Color	Colorless	Colorless
Texture		
	Solid (Melts at RT)	Solid (Melts at RT)
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
	For Information Only	
Average Time to Dissolve	(Approx. 1 min)	Passes
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 97.0%	99.5%

## **Biological Testing:**

Test concentration: 1.45 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or	Tobacco Callus	Passes
more plant tissue cultured lines with no morphological aberrations to plants.	Perilla Fantasy	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-August-22

Recommended Shelf Life Date: August-2025

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