

CERTIFICATE OF ANALYSIS

Product Description SPERMIDINE, FREE BASE
N-(3-AMINOPROPYL)-1,4-BUTANEDIAMINE
Product Number S837
Lot Number SMR0837015
Storage Temperature 2-8°C
Molecular Weight 145.25
Formula C₇H₁₉N₃
CAS Number 124-20-9

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 1.45 mg/mL	Passes
pH	Under Development	10.2
Physical Appearance Color Texture	Colorless Solid (Melts at RT)	Colorless Solid (Melts at RT)
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 1 min)	1 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 97.0%	99.40%
Water Content by Karl Fischer	For Information Only	<0.1%

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 more plant tissue cultured lines with no morphological aberrations to plants.	Tobacco Callus	Passes
	Ajuga	Passes

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

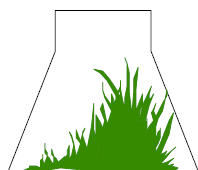
PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. 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.

Date of Release: 1-March-2018

Recommended Shelf Life Date: March 2023



David S. Hart
Technical Director



PhytoTechnology Laboratories®

Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 (1-913-341-5343 Outside the USA & Canada)
Fax: 1-888-449-8682 (1-913-341-5442 Outside the USA & Canada)
Visit our Web Site at <http://www.phytotechlab.com>

