

# CERTIFICATE OF ANALYSIS

Product Description 2, 4-DICHLOROPHENOXYACETIC ACID SOLUTION (1 mg/mL);  
2,4-D  
Product Number D295  
Lot Number 11C0295020  
Storage Temperature 2-6 °C  
Molecular Weight 221.04  
Formula C<sub>8</sub>H<sub>6</sub>Cl<sub>2</sub>O<sub>3</sub>  
CAS Number 94-75-7

## Physicochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Miscible with Water	Passes
pH (Neat)	11.25 – 13.25	12.5
Physical Appearance Color Texture	Colorless Clear Liquid	Colorless Clear Liquid
Insolubles	None	Passes
Sterility by USP <71>	Sterile	Passes
FTIR	Conforms to Structure	Passes
Purity of Raw Material	Minimum 97.0%	99.0%

## Biological Testing:

Test Concentration: 1.0 mL (1.0 mg)/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or callus formation in two or more plant tissue cultured lines with no morphological aberrations to plants.	Tobacco callus	Passes
	Carrot callus	Passes

The material described in this certificate was manufactured in the United States of America and 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: June 2015



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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