

# CERTIFICATE OF ANALYSIS

Product Description	CARBENICILLIN, DISODIUM SALT $\alpha$ -CARBOXYBENZYL PENICILLIN, DISODIUM SALT
Product Number	C346
Lot Number	06C34662
Storage Temperature	2-6° C
Molecular Weight	422.41
Formula	C <sub>17</sub> H <sub>16</sub> N <sub>2</sub> O <sub>6</sub> SN <sub>2</sub>
CAS Number	4800-94-6

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Soluble in Water
pH (0.050 g/L)	4.0 – 6.5	6.12
Physical Appearance		
Color*	2149-70 (White Chocolate) 2143-70 to 2151-70	2148-70 (Mountain Peak White)
Texture	Fine to Fluffy Powder	Fine powder
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 1 min	Within 1 min
Precipitation Formation	None	None
Potency “as is”	Variable by Lot	563 µg/mg
Water	≤6.0%	3.8%
Assay	≥85%	92.4%

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

## Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product does not typically promote tissue growth; tissue necrosis or death is possible. This product is commonly used to control bacterial contamination or occasionally as a selection agent for genetically transformed plants. This product is tested with two or more clean plant cell lines with no bioburden added to the medium.	Boston Fern	Passes— Supported plant growth and/or shoot proliferation. Bacterial contamination was not present.
	Hosta	Passes— Supported plant growth and/or shoot proliferation. Bacterial contamination was not present.

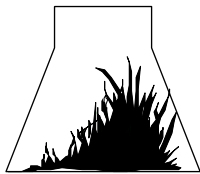
The material described in this certificate was manufactured in the United State of America and is of synthetic nature. No animal or plant components were used in the manufacture of this product.

**PhytoTechnology Laboratories, LLC 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: December 2007

Emily Burdick

Quality Assurance Manager



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

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