CERTIFICATE OF ANALYSIS

Product Description	Carbenicillin, Disodium Salt α-Carboxybenzylpenicillin, Disodium Salt
Product Number	C346
Lot Number	13G0346086
Storage Temperature	2-6 °C
Molecular Weight	422.41
Formula	$C_{17}H_{16}N_2O_6SNa_2$
CAS Number	4800-94-6

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	6.4
Physical Appearance		
Color*	2022-70 to 2027-70,	2022-70 Light Yellow
	2143-70 to 2151-70	-
Texture	Fine Powder	Fine powder
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Potency "as is"	For Information Only	795 μg/mg
Water	For Information Only	1.8%
Purity	Minimum 85.0%	93.4%

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

Biological Testing:

Test Concentration: 50 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product does not typically promote growth; tissue necrosis or death is possible. This product	Lily	Passes
is tested with two or more clean plant cell lines with no bioburden added to the medium.	Hosta	Passes

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

*Phyto*Technology 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. *Phyto*Technology 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: September 2018

Gary Seckinger, Ph.D.



*Phyto*Technology Laboratories®

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