CERTIFICATE OF ANALYSIS

Product Description	CARBENICILLIN, DISODIUM SALT α-CARBOXYBENZYLPENICILLIN, DISODIUM SALT
Product Number	C346
Lot Number	HKE0346111
Storage Temperature	2-8°C
Molecular Weight	422.41 g/mol
Formula	$C_{17}H_{16}N_2O_6SNa_2$
CAS Number	4800-94-6

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 100 mg/mL	Passes
pH	5.5 – 7.0	6.9
Physical Appearance Color* Texture	 2022-70 to 2027-70, 2143-70 to 2151-70 Fine Powder	 2145-70 White Fine Powder
Solution Appearance Clarity Color	 Clear Colorless	 Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 5 min)	Passes
Insolubles	None	Passes
FTIR	Conform to Structure	Passes
Purity	Minimum 92.0%	97.6%
Potency	For Information Only	856 µg/mg

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

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 is tested with two or more clean plant cell lines with no bioburden added to the medium.	Parrot Feather	Passes
	H38 Tobacco Callus	Passes

This material is derived from microbial fermentation and highly purified and considered semi-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: 17-June-2024
Recommended Shelf-Life Date: December 2026

David Hart
Technical Director

PhytoTech Labs Inc.
14610 W 106TH St. Lenexa, KS 66215
Phone: 1-888-749-8682 or 1-913-341-5343
phytotechlab.com