

CERTIFICATE OF ANALYSIS

Product Description CARBENICILLIN, DISODIUM SALT
 α -CARBOXYBENZYL PENICILLIN, DISODIUM SALT
Product Number C346
Lot Number HKW0346108
Storage Temperature 2-8°C
Molecular Weight 422.36 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 @ 10 mg/mL	Passes
pH	5.5 – 7.0	6.7
Physical Appearance Color* Texture	2022-70 to 2027-70, 2143-70 to 2151-70 Fine Powder	2144-70 Light Cream 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 85.0%	98.1%
Potency	$\geq 770 \mu\text{g}/\text{mg}$	855 $\mu\text{g}/\text{mg}$

* 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.	Perilla Fantasy	Passes
	Xanthi 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: 31-July-2023

Recommended Shelf-Life Date: February 2026



David Hart
Technical Director