

# CERTIFICATE OF ANALYSIS

Product Description CARBENICILLIN SOLUTION (100MG/ML)  
CARBENICILLIN, DISODIUM SALT SOLUTION;  
 $\alpha$ -CARBOXYBENZYL PENICILLIN, DISODIUM SALT  
Product Number C540  
Lot Number HHG0540012  
Storage Temperature -20°C  
Molecular Weight 422.36  
Formula  $C_{17}H_{16}N_2O_6SNa_2$   
CAS Number 4800-94-6

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Miscible with Water	Passes
pH (Neat)	5.0-7.5	6.6
Physical Appearance Color* Clarity	Colorless to 2018-70 to 2024-70 Clear Liquid	Colorless Clear Liquid
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Sterility	Sterile	Passes
Potency of Raw Material	For Information Only	856 $\mu$ g/mg

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

The material described in this certificate was manufactured in the United States of America. The raw material is derived from microbial fermentation and is 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: 21-May-2026

Recommended Shelf-Life Date: May 2029

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