

CERTIFICATE OF ANALYSIS

Product Description CARBENICILLIN, DISODIUM SALT
 α -CARBOXYBENZYL PENICILLIN, DISODIUM SALT
Product Number C346
Lot Number AHK0346096
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 | 6.0 |
| Physical Appearance Color* Texture | 2022-70 to 2027-70, 2143-70 to 2151-70 Fine Powder | 2146-70 Light Cream Fine powder |
| Solution Appearance Clarity Color | Clear Colorless | Clear Slight Yellow Tint |
| Average Time to Dissolve | For Information Only (Approx. 5 min) | Passes |
| Insolubles | None | Passes |
| FTIR | Conform to Structure | Passes |
| Water | For Information Only | Passes |
| Purity | Minimum 85.0% | 92% |

* 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. | African Violet | Passes |
| | Ajuga | 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.

PhytoTechnology 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. 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.

Date of Release: 15-April-2019

Recommended Shelf Life Date: April 2024



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