

CERTIFICATE OF ANALYSIS

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|---------------------|---|
| Product Description | TIMENTIN SOLUTION, 100 MG/ML [TICARCILLIN DISODIUM SALT/ POTASSIUM CLAVULANATE MIXTURE (15:1)] |
| Product Number | T767 |
| Lot Number | 13D0767006 |
| Storage Temperature | -20°-0° C |
| Molecular Weight | 428.4 / 237.3 |
| Formula | C ₁₅ H ₁₄ N ₂ Na ₂ O ₆ S ₂ / C ₈ H ₈ KNO ₅ |
| CAS Number | 4697-14-7/61177-45-5 |

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|-------------------------|--|--|
| Solubility | Miscible with Water | Passes |
| pH (Neat) | Under Development | 5.6 |
| Physical Appearance | 2018-70 to 2024-70, 2021-50 to 2023-50, or colorless | 2021-50 Light Yellow |
| Color* | Clear Liquid | Clear Liquid |
| Texture | | |
| Insolubles | None | Passes |
| Potency of Raw Material | For Information Only | Ticarcillin: 82.2% Clavulanate Acid: 5.6% |
| FTIR | Conforms to Structure | Passes |
| Sterility by USP<71> | Sterile | Passes |

Biological Testing:

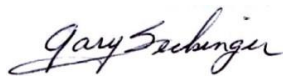
Test Concentration: 0.50 mL/L

| TEST SPECIFICATION | PLANT CELL LINE | RESULTS |
|--|-----------------|---------|
| Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants | African Violet | Passes |
| | Cape Primrose | Passes |

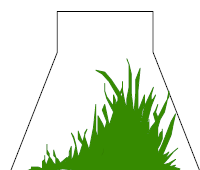
The material described in this certificate was manufactured in the United States of America and is synthetic in nature. No animal- or plant-derived components were used in the manufacture of this product.

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.

Recommended Shelf Life Date: February 2017



Gary Seckinger, Ph.D.



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