CERTIFICATE OF ANALYSIS

Product Description TIMENTIN

TICARCILLIN DISODIUM SALT/ POTASSIUM CLAVULANATE MIXTURE (15:1)

Product Number T869

Lot Number HYA0869067

Storage Temperature 2-8°C

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--------------------------|-----------------------------|--------------|
| Solubility | Soluble in Water @ 10 mg/mL | Passes |
| pН | Under Development | 6.2 |
| Physical Appearance | | |
| Color* | 2022-70 to 2026-70, | |
| | 2146-70 to 2150-70 | |
| | PM-1 to PM-4 | PM-1 White |
| Texture | Fine to Crystalline Powder | Fine Powder |
| Solution Appearance | | |
| Clarity | Clear | Clear |
| Color | Colorless | Colorless |
| | For Information Only | |
| Average Time to Dissolve | (Approx. 5 min) | Passes |
| Insolubles | None | Passes- None |
| FTIR | Conforms to Structure | Passes |
| Purity | | |
| | Ticarcillin ≥ 75.4% | Passes |
| | Clavulanate ≥ 5.0% | Passes |

^{*} Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color PreviewTM).

Biological Testing:

Test Concentration: 50 mg/L

| TEST SPECIFICATION | PLANT CELL LINE | RESULTS |
|--|-----------------|---------|
| This product does not typically promote tissue growth; tissue necrosis or death is possible with certain plant species. It was tested with | African Violet | Passes |
| two or more tissue cultured plant lines with no bioburden added to the medium. | Boston Fern | Passes |

This material contains ticarcillin and potassium clavulanate, both of which are semi-synthetic. They are each highly purified from microbial fermentation, and then blended. No animal- or plant-derived components were used in the manufacture of this product.

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Date of Release: 19-February-2020

Recommended Shelf Life Date: February-2025

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