

CERTIFICATE OF ANALYSIS

Product Description MEROPENEM TRIHYDRATE
Product Number M5600
Lot Number HGW5600002
Molecular Weight 437.51
Formula C₁₇H₂₅N₃O₅S.3H₂O
CAS Number 119478-56-7
Storage Temperature -20°C

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 5mg/mL	Passes
pH	Under Development	3.8
Physical Appearance		
Color*	Under Development	2228-70 Off-White
Texture	Under Development	Fine Powder
Solution Appearance		
Color	Under Development	Clear
Clarity	Under Development	Colorless
Average Time to Dissolve	Under Development	2 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	>97%	97.0%

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

Biological Testing:

Test Concentration: 0.01 g/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	Xanthi Tobacco Callus	Passes
	Parrot Feather	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.

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: 09-October-2023

Recommended Shelf-Life Date: October 2026



David Hart
Technical Director