

# CERTIFICATE OF ANALYSIS

Product Description TETRACYCLINE HYDROCHLORIDE  
(4S-(4a,4a $\alpha$ ,5a $\alpha$ ,6 $\beta$ ,12a $\alpha$ )]-4-(DIMETHYLAMINO)-1,4,4a,5,5a,6,11,12a-OCTAHYDRO-3,6,10,12,12a-PENTAHYDROXY-6-METHYL-1,11-DIOXO-2-NAPHTHACENECARBOXAMIDE HYDROCHLORIDE

Product Number T859  
Lot Number HHT0859011  
Storage Temperature -20°C  
Molecular Weight 480.94  
Formula C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>•HCl  
CAS Number 64-75-5

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	2.6
Physical Appearance Color*	2022-10 to 2022-50 or 2023-10 to 2023-50	2023-20 Yellow
Texture	Fine to Crystalline Powder	Crystalline Powder
Solution Appearance Clarity	Clear	Clear
Color	Light Yellow to Yellow-Green	Yellow-Green
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Potency	Minimum 900 $\mu$ g/mg	998 $\mu$ g/mg
Purity	Minimum 95.0%	99.40%


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

The material described in this certificate is 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: 18-March-2025

Recommended Shelf-Life Date: March 2028

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