

CERTIFICATE OF ANALYSIS

Product Description TETRACYCLINE HYDROCHLORIDE, USP GRADE
(4S-(4a,4a α ,5a α ,6 β ,12a α)]-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 09H0859004
Storage Temperature -20-0° C
Molecular Weight 480.94
Formula C₂₂H₂₄N₂O₈•HCl
CAS Number 64-75-5

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	2.45
Physical Appearance Color*	2022-10 to 2022-50 or 2023-10 to 2023-50	2022-40 Yellow
Texture	Fine to Crystalline Powder	Fine Powder
Solution Appearance Clarity	Clear	Clear
Color	Light Yellow to Yellow-Green	Light Yellow
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Potency	Minimum 900 μ g/mg	968 μ g/mg
Purity	Minimum 95.0%	97.4%
Moisture (Loss on Drying)	For Information Only	0.5%
USP 31 Required Assays	Passes	Passes

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

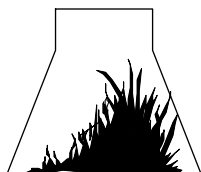
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

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: July 2012



Gary Seckinger, Ph.D.



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