CERTIFICATE OF ANALYSIS

Product Description	TETRACYCLINE HYDROCHLORIDE (4S-(4a,4aα,5aα,6β,12aα)]-4-(DIMETHYLAMINO)-1,4,4a,5,5a,6,11,12a-OCTAHYDRO-3,6,10,12,12a-PENTAHYDROXY-6-METHYL-1,11-DIOXO-2-NAPTHACENECARBOXAMIDE HYDROCHLORIDE
Product Number	T859
Lot Number	09H0859004
Storage Temperature	-20-0 ˚C
Molecular Weight	480.94
Formula	$C_{22}H_{24}N_2O_8$•HCl
CAS Number	64-75-5

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	2.4
Physical Appearance		
Color*	2022-10 to 2022-50 or 2023-10 to 2023-50	2022-10 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	For Information Only (Approx. 5 min)	3 min
Insolubles	None	Passes
Potency	Minimum 900 µg/mg	968 µg/mg
Purity	Minimum 95.0%	97.4%
Moisture (Loss on Drying)	For Information Only	0.5%
FTIR	Conforms to Structure	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.

***Phyto*Technology 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. *Phyto*Technology 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: March 2018

Gary Seckinger, Ph.D.

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