



# Certificate of Analysis

## TETRACYCLINE HCl

<u>Catalog #</u> IB02200	<u>Size</u> 25 gm
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**Catalog Number:** IB02200

**Lot Number:** 20100613

**Molecular Formula:** C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>HCl

**Molecular Weight:** 480.90

**Appearance:** Yellow, crystalline powder

<u>Assay</u>	<u>Min</u>	<u>Max</u>	<u>Actual</u>	<u>Units</u>	<u>Disposition</u>
Identification	PASS		PASS	P/F	PASS
Crystallinity	PASS		PASS	P/F	PASS
pH	1.8	2.8	2.5		PASS
Specific Rotation	-255	-240	-244	°	PASS
Related Substances:					
4-Epitetracycline		3.0	1.3	%	PASS
Anhydrotetracycline		0.5	0.12	%	PASS
4-Epianhydrotetracycline		0.5	0.03	%	PASS
2-Acetyl-2-decarbamoyletetracycline		1.5	0.85	%	PASS
Heavy Metals		50	Conforms	ppm	PASS
Loss on Drying		2.0	0.45	%	PASS
Sulphate Ash		0.5	0.06	%	PASS
Assay (on dried basis)	95.0	102.0	96.7	%	PASS
Potency (on dried basis)	900		960	mcg/mg	PASS
Bacterial Endotoxin		0.5	<0.5	IU/mg	PASS
Retest Date			01/2017		

Residual Solvents Impurity Information – The following Class 1, 2, or 3 Solvents may be present in this product and are identified and quantified below. All comply with the limits prescribed in the current USP.

<u>Class</u>	<u>Solvent</u>	<u>Concentration Limit (ppm)</u>
Class 3	1-Butanol	5000
Class 3	Acetone	5000

*This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.*

Signature: K. McCarthy  
Date: 09/24/2014