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Certificate of Analysis

Catalogue Number BIO-392
Lot Number 002363-141225-63
Product **Tetracycline hydrochloride**

Achromycin hydrochloride

CAS Number 64-75-5
Molecular Formula $C_{22}H_{24}N_2O_8 \cdot HCl$
Molecular Weight 480.90

Appearance	Yellow crystalline powder
Crystallinity	Passes test
Heavy Metals	0.004%
pH	2.39 (C=1% in Water at 25 °C)
Optical Rotation	-253°
Loss on Drying	0.20%
Residual Solvents	Acetone (GC): < 0.62 ppm n-Butanol (GC): 2253 ppm
E. Coli	Absence
Related Substances	4-Epitetracycline: 1.61% 4-Ephianhydrotetracycline: Not detected Anhydrotetracycline: 0.10% Chlortetracycline hydrochloride: 0.08% Maximum single unknown impurity: 0.03%
Potency (Anhydrous Basis)	986 µg/mg
Grade	USP
Storage	Store at 0-8 °C
Additional Information	Identification: Passes test TAMC: < 1000 cfu/g TYMC: < 100 cfu/g