

Certificate of Analysis

Date of Testing: 2024-04-10 10:42:48
Date of Next Testing: 2026-04-10 10:42:48
Product Name: **Tetracycline hydrochloride**
CAS Number: 64-75-5
Specifications & Purity: USP grade
Lot #: F2224234
SKU #: **T105493**
Analysis: 340615
Storage Temperature: Protected from light,Store at -20°C

| Parameter | Limit Values | Result |
|--|---------------------------|---------------------------|
| Sulfate Ash | 0-0.5 (%) | 0.32 % |
| PH (1 %; Water) | 2-3 | 2.99 |
| Hydrochloric acid 4 - sent to dehydration tetracycline | 0-2 (%) | 1.99 % |
| Potency (mcg/mg) | ≥900 | 1199.00 |
| Loss on drying | 0-2 (%) | 0.34 % |
| Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$ | -255--240 (°) | -254.00 ° |
| Purity(HPLC) | 95-100 (%) | 98.10000 % |
| Appearance (T105493) | yellow powder or crystals | yellow powder or crystals |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O , Yellow to Yellow-Orange,Clear,50 mg/ml | pass | Pass |



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