

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 01588  
**Lot Number** 001204-12091478  
**Product** **Chlortetracycline hydrochloride**

7-Chlorotetracycline hydrochloride

**CAS Number** 64-72-2  
**Molecular Formula**  $C_{22}H_{23}ClN_2O_8 \cdot HCl$

**Molecular Weight** 515.3

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**Appearance** Yellow crystalline powder  
**Crystallinity** Conforms with USP29  
**pH** 2.4 (10 mg/ml)  
**Optical Rotation**  $[a]_D = -242^\circ$   
**Infrared Spectrum** Conforms to structure  
**Loss on Drying** 0.2%  
**Residual Solvents** Ethanol: 2823 ppm (dried basis)  
**Purity**  $\geq 98\%$   
**Storage** Store at 0-8°C

**Additional Information** Identification A,B: Conforms with USP29  
**Expiration Date** 9/13/2016  
**Remarks** See material safety data sheet for additional information  
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager