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## Certificate of Analysis

**Product Description:** Chlortetracycline Hydrochloride\_  
**Catalog Number:** 190327\_  
**Lot:** 3752J\_

**Formula:** C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>8</sub>.HCl  
**CAS #:** 64-72-2  
**Physical Description:** Powder

**Formula Weight:** 515.3  
**Storage:** -0°C, protect from light

Test	Specification	Result
Identity Test	Passes	Passes
Activity	≥900 u/mg	911 u/mg
Heavy Metals	≤100 ppm	<50 ppm
Ash	≤0.5%	0.1%
Expiration Date	Month/Day/Year	8/31/2010

pH (10 mg/ml): 2.5

Specific Optical Rotation (2.5 mg/ml): -244°

A460 nm (5 mg/ml): 0.17

Related Substances:

--Impurity A: 1.6%

--Others: 0.6%

TC HCl (anhyd. substance): 4.5%

Water: 0.6%

CTC HCl: 91.1%

TC HCl + CTC HCl: 95.6%

Residues of Ethanol: <5000 ppm

10/11/2006 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)