MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Tetracycline hydrochloride
Catalog Number: 103011
Lot: R3759

Formula: $C_{22}H_{24}N_2O_8 \cdot HCl$
CAS #: 64-75-5
Physical Description: Yellow Crystalline Powder

Formula Weight: 480.91
Storage: -0°C, protect from light

Test	Specification	Result
Identity Test	Passes	Passes
Potency	≥900 µg/mg	971 ug/mg
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	215 - 225°C	222.2-224.5°C
UV/Vis:□□□ max (1N HCl)	219, 271, 357 ± 5 nm	218.0, 270.0, 358.0 nm
pH (1% aq soln)	1.8 - 2.8	2.52
Moisture	≤2%	0.25%
Optical Rotation	-239° to -258° (c=0.01, 0.1 N HCl)	-253°
Expiration Date	Month/Day/Year	7/31/99

Approved - 04/30/2001 by Joe Dietz
MP Biomedicals, LLC.
Technical Director