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## Certificate of Analysis

**Product Description:** Tetracycline Free Base\_  
**Catalog Number:** 103012\_  
**Lot:** QR15402\_

**Formula:** C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>  
**CAS #:** 60-54-8  
**Physical Description:** Yellow Powder

**Formula Weight:** 444.43  
**Storage:** -20°C, protect from light, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
Potency	#900 µg/mg	944 µg/mg
FTIR	Conforms to Standard	Conforms to Standard
UV/VIS: □ max (0.1N HCl)	215 - 220, 266 - 271, 354 - 357 nm	218.9, 269.2, 356.7 nm
Expiration Date	Month/Day/Year	07/02/2020

Identification: Positive reaction

pH: 4.70

Specific Rotation: -271°

Loss on Drying: 7.49%

Heavy Metals: <40 ppm

Sulphated Ash: 0.21%

Related Substances:

----4-epitetraacycline: 4.84%

----4-epianhydrotetraacycline: 0.01%

Peak Tail: 0.01%

Assay: 94.4%

Conclusion: This product conforms to BP 2002/EP4

04/06/2018 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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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)