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## Certificate of Analysis

**Product Description:** Doxycycline Hydrochloride\_  
**Catalog Number:** 195044\_  
**Lot:** Q9669\_

**Formula:** C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>·HCl  
**CAS #:** 10592-13-9  
**Physical Description:** Yellow Powder

**Formula Weight:** 480.9  
**Storage:** desiccate, protect from light, 2 - 8°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
pH (10 mg/ml)	2-3	2.40
Solubility (10 mg/ml)	Clear solution	Clear solution

Specific optical rotation: -111°  
Sulphated ash: <0.4%  
Water: 2.1%  
Assay (HPLC): 98.4%  
Heavy metals: <50 ppm  
Recommended Retest Date: 10/31/2021

07/25/2018 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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