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## Certificate of Analysis

**Product Description:** o-Phospho-L-Threonine\_  
**Catalog Number:** 156242\_  
**Lot:** QR11500\_

**Formula:** C<sub>4</sub>H<sub>10</sub>NO<sub>6</sub>P

**CAS #:** 1114-81-4

**Physical Description:** White Powder

**Formula Weight:** 199.1

**Storage:** -20°C

Test	Specification	Result
Identity Test	Passes	Passes

Free Acid

FTIR: Conforms to standard

pH (1% aq soln): 2.24

Loss on Drying: 1.18%

Assay: 99.6%

Inorganic Phosphorus: 0.4%

Specific Optical Rotation (1% in water) : -9.3°

Recommended Retest Date: 11/09/2017

11/11/2015 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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