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## Certificate of Analysis

**Product Description:** Phosphoenol Pyruvic Acid Trisodium Salt Hydrate.

**Catalog Number:** 151872.

**Lot:** QR11930.

**Formula:**  $C_3H_2O_6PNa_3 \cdot xH_2O$

**CAS #:** 5541-93-5

**Physical Description:** White Powder

**Formula Weight:** 234.0 (anhyd.)

**Storage:** -20°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Reference	Conforms to Reference

Solution (5% aq soln): Colorless

Turbidity (0.5% aq soln): 0.3 NTU

Water (KF): 34.5%

Perchloric Acid Titration (calc on dry matter): 100.9%

Enzymatic Assay: 100.5%

Phosphorus Content: 8.6%

Inorganic Phosphorus: <0.1%

Organic Phosphorus: 8.6%

Recommended Retest Date: 02/11/2018

02/16/2016 - 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)