

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Hepes Buffer_

Catalog Number: 1588413; 1588415; 1588416; 1588417_

Lot: 15884157_

Formula: n/a

CAS #: n/a

Physical Description: White Powder

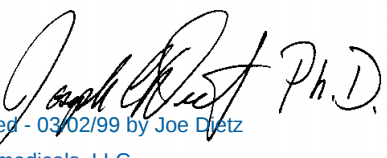
Formula Weight: n/a

Storage: Room Temperature

Test	Specification	Results
Moisture Content	Not more than 2.0%	<0.5%
Solubility	Pass	Passes
Assay	≥98%	99.4%
Absorbance	Record Results	(1M Solution, 1cm cell) A260: 0.031 A280: 0.037 A420: 0.006 (50% Solution, 4 cm cell) A330: 0.053 A440: 0.015
Expiration Date	m/yr	01/02

Maximum limit of Impurities:

Test	Limit
Sulohated Ash	0.1%
Halide (Cl)	0.005%
Phosphate (PO4)	0.001%
Sulphate (SO4)	0.01%
Copper (Cu)	0.0002%
Iron (Fe)	0.0002%
Heavy Metals (as Pb)	0.0001%
Sodium (Na)	0.1%


Approved - 03/02/99 by Joe Dietz
MP Biomedicals, LLC.
Technical Director

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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)