

**MP Biomedicals, LLC**29525 Fountain Parkway  
Solon, Ohio 44139Telephone: 440/337-1200  
Toll Free: 800/854-0530

## Certificate of Analysis

**Product Description:** Hydroxypropyl-beta-cyclodextrin  
**Catalog Number:** 153540  
**Lot:** QR10883

**Formula:**  $(C_6H_9O_5)_x \cdot (C_3H_7O)_x$  (complete on the inspection record)  
**CAS #:** 94035-02-6  
**Physical Description:** White Powder

**Formula Weight:** (complete on the inspection record)  
**Storage:** Room Temperature

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

Degree of Substitution: 0.8  
Propylene Glycol: <5.0%  
Unsubstituted Cyclodextrin: <1.0%  
Residue on Ignition: <2.5%  
Water: 3.3%  
Recommended Retest Date: 07/23/2016



07/27/2015 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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<http://www.mpbio.com>

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