

**MP Biomedicals, LLC**29525 Fountain Parkway  
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## Certificate of Analysis

**Product Description:** alpha-Cyclodextrin  
**Catalog Number:** 190052  
**Lot:** SR03548**Formula:** C<sub>36</sub>H<sub>60</sub>O<sub>30</sub>  
**CAS #:** 10016-20-3  
**Physical Description:** White Powder**Formula Weight:** 972.9  
**Storage:** 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Loss on Drying	≤13%	9.23%
Optical Rotation (c=1, water)	+148 ± 5°	144°

Solution: Colorless  
Turbidity: 3.9 NTU  
Melting Point: 277°C  
Purity (HPLC): 99.8 area%  
FTIR: Corresponds to reference spectrum  
Recommended Retest Date (MM/DD/YYYY): 12/11/2022



12/12/2020 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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