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## Certificate of Analysis

**Product Description:** Dextran, Clinical Grade, MW 60,000 - 90,000\_  
**Catalog Number:** 180140\_  
**Lot:** Q5659\_

**Formula:** N/A  
**CAS #:** 9004-54-0  
**Physical Description:** White Powder

**Formula Weight:** 60,000 - 90,000  
**Storage:** 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes

Specific rotation (2% aq solution): 190.0°

IR: Complies

Loss on drying: 4.9%

Heavy metals: <8 ppm

Residual solvents:

- Ethanol: 0.01%

- Methanol: Not detected

Molecular-mass distribution:

- Mw: 66,600

- M10: 180,000

- M90: 16,600

Residue on ignition: 0.1%

Nitrogenous: <70 ppm

Chloride: <0.20%

Recommended Retest Date: 06/30/2018

12/14/2016 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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