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Certificate of Analysis

Product Description: Alginate Sodium Salt, High Viscosity
Catalog Number: 154723
Lot: QR13471

Formula: (C₆H₇O₆Na)_n
CAS #: 9005-38-3
Physical Description: Tan Powder

Formula Weight: N/A
Storage: 15-30 °C

Test	Specification	Result
Identity Test	Passes	Passes
Viscosity (1% aq soln)	1000 - 1500 cps	1048 cps

Loss on Drying: 14.2%
 pH (1% aq soln): 6.61
 Color: 62
 Particle Size:
 -- thru 250 micron: 100.00%
 -- thru 180 micron: 99.90%
 Ash (dried basis): 25.06%
 Sodium Alginate Content: 101.50%
 Lead: 0.1 ppm
 Arsenic: 0.70 ppm
 Total Heavy Metals: <20.0 ppm
 Bacteria (TVMAC): 40 cfu/g
 Yeast: <100 cfu/g
 Mold: <100 cfu/g
 Coliform: Negative
 E. coli: Absent/25 g
 Salmonella: Absent/25 g
 S. aureus: Absent
 P. aeruginosa: Absent
 Identification A, B (NF): Passes
 Sodium Alginate: 101.50%
 Recommended retest date: 02/20/2018

A handwritten signature in black ink that reads 'John Huang'.

02/27/2017 - John Huang, PhD
 MP Biomedicals, LLC.

Quality Control Manager

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<mailto:biotech@mpbio.com>
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