

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Polyvinylpyrrolidone K30_

Catalog Number: 102786_

Lot: 3784K_

Formula: $(-\text{CH}(\text{NCH}_2\text{CH}_2\text{CH}_2\text{CO})\text{CH}_2-)_n$

CAS #: 9003-39-8

Physical Description: White Powder

Formula Weight: 35,000 - 51,000

Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
pH (5% aq soln)	2.8 - 4.2	3.9
Viscosity (1% aq soln)	27 - 35 cps	31.4
Solubility (2.5% aq soln)	Clearly Soluble, Free of Floating Particles	Clearly Soluble, Free of Floating Particles

Water: 2.8%

Residue on Ignition: 0.011

Lead : <10%

Limit of Aldehyde: <500 ppm

Limit of Hydrazine: <1 ppm

Vinylpyrrolidone: 0.00039%

Nitrogen Content: 12.2%

Residual Solvent: Complies

Microbiological Status: Complies

05/01/2009 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

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)