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## Certificate of Analysis

**Product Description:** Albumin, Bovine, Fraction V  
**Catalog Number:** 160069  
**Lot:** M3153

**Formula:** N/A  
**CAS #:** 9048-46-8  
**Physical Description:** Tan Flaky Powder

**Formula Weight:** N/A  
**Storage:** +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Source	Bovine	Passes
pH (1% isotonic)	6.5 - 7.5	7.3
Purity	≥98%	100% (HPLC)
Sulfated Ash	≤2%	1.8%
Moisture	≤6%	3.5%
Heavy Metals	≤20 ppm	<10 ppm

Sodium (10% soln): 22 mEq/L  
 Chloride (10% soln): 4 mEq/L  
 Calcium (10% soln): 2.3 mg/dL  
 Iron: 33 µg/dL  
 Conductivity (10% soln): 820 µS  
 Vesicular stomatitis virus: Negative  
 Bluetongue virus: Negative  
 Microbial Growth: No Growth  
 Filtered thru 0.2 um filter prior to lyophilization

A handwritten signature in black ink that reads 'Christina Marotta'. The signature is written in a cursive, flowing style.

01/13/2012 - Christina Marotta  
 MP Biomedicals, LLC.  
 Technical Director

This is an electronically generated document  
<mailto:biotech@mpbio.com>  
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 Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)

