



**MP Biomedicals, LLC**

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## Certificate of Analysis

**Product Description:** Casein Hydrolysate Enzymatic  
**Catalog Number:** 101290\_  
**Lot:** 1619H\_

**Formula:** N/A  
**CAS #:** N/A  
**Physical Description:** Off-white Powder

**Formula Weight:** N/A  
**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Casein Source:	Bovine Milk	Bovine Milk
Enzyme Source:	Porcine Pancreas	Porcine Pancreas
Nitrogen (Total):	8 - 16%	13.2%
Nitrogen (Amino):	4 - 10%	6.6%
Nitrogen (Amino/ Total Ratio):	45 -65	50
Ash Content:	4 - 10%	4.3%
Loss on Drying:	1 - 7%	3 - 4%
pH (2% Solution):	5 - 7.5	6.6 - 6.7
Color (2% Solution 420 ABS):	≤0.2	0.111 - 0.130
Clarity (Hach 2100 AN):	≤0.3	0.18 - 0.37
Odor:	Typical	Typical
Standard Plate Count (Nf CFU/G 35C):	Not more than 10000	Passes
Salmonella/25g	Absent	Absent
Enterbacterm/10g	Not more than 10	Passes

Handwritten signature of Joseph Dietz, Ph.D. in blue ink.

12/03/2003 - Joseph Dietz, Ph.D

MP Biomedicals, LLC.

Technical Director

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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)