

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: CellMax™ Bovine Transferrin (HOLO), Chromatographically Purified from New Zealand

Catalog Number: 152335

Lot: 2148

Formula: N/A

CAS #: N/A

Physical Description: Reddish/Brown Lyophilized Powder

Formula Weight: N/A

Storage: +4°C

| Test | Specification | Result |
|---------------------------|---|-----------------------------|
| Appearance | Red to Brown Powder | Passes |
| Bioburden | #100 cfu/g | <10 cfu/g |
| Endotoxin | #1 EU/mg | <0.125 EU/mg |
| Iron | #1200 µg/g protein | 1600 µg/g protein |
| Moisture | #5.0% w/w | 1.4% w/w |
| Mycoplasma | None Detected | None Detected |
| pH (3% w/v soln) | 6.0 - 8.0 | 7.2 |
| Purity | #95% Transferrin w/w protein | 96% Transferrin w/w protein |
| Solubility (1% aq soln) | Dissolves completely in 20 minutes at 20 - 25°C | Passes |
| Total Protein (anhydrous) | #95% w/w total protein | 100% ww |
| Virus (9 CFR 113.53(c)) | None Detected | None Detected |
| Source | Bovine Serum | Bovine Serum |

Origin: New Zealand

Date of Manufacture: 9/27/2012

Retest Date: 9/30/2014

Christina Marotta

06/21/2013 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

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