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Certificate of Analysis

Product Description: CellMax™ Bovine Transferrin (HOLO), Chromatographically Purified from New Zealand
Catalog Number: 152335
Lot: DS169

Formula: N/A
CAS #: N/A
Physical Description: Red-Brown Powder

Formula Weight: N/A
Storage: 2 - 8°C

| Test | Specification | Result |
|---------------------------|---|------------------------|
| Appearance | Red to Brown Powder | Red-Brown Powder |
| Bioburden | ≤100 cfu/g | 10 cfu/g |
| Endotoxin | ≤1 EU/mg | <0.125 EU/mg |
| Iron | ≥1200 µg/g protein | 1400 µg/g protein |
| Moisture | ≤5.0% w/w | 2.0% w/w (KF) |
| Mycoplasma | None Detected | None Detected |
| pH (3% w/v soln) | 6.0 - 8.0 | 7.1 |
| Purity | ≥95% Transferrin w/w protein | 100% w/w total protein |
| Solubility (1% aq soln) | Dissolves completely in 20 minutes at 20 - 25°C | Passes |
| Total Protein (anhydrous) | ≥95% w/w total protein | 100% w/w |
| Virus (9 CFR 113.53(c)) | None Detected | Not Detected |
| Source | Bovine Serum | Bovine Serum |

Origin: New Zealand

Date of Manufacture: 03/27/2017

Recommended Retest Date: 03/26/2019

A handwritten signature in black ink, appearing to read 'J. Huang'.

06/19/2018 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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