



GEMINI
BIO-PRODUCTS

Certificate of Analysis

Revised July 8, 2019

Product: **holo-Transferrin**
Human
Powder

Catalog #: 800-131P
Lot #: H70S13G
Origin: United States (100%)

Manufacture Date: Dec 2015
Expiration Date: Dec 2020

TEST	METHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Bioburden		<10 cfu/mL	Pass
Endotoxin	LAL	≤1 EU/mg	0.068 EU/mg
Microbiological Testing			
Mycoplasma		Not Detected	Not Detected
Viral Testing			
HBsAg		Non-Reactive	Non-Reactive
Anti-HCV		Non-Reactive	Non-Reactive
Anti-HIV-1/HIV-2		Non-Reactive	Non-Reactive
ALT		Pass	Pass
Syphilis		Negative	Negative
HBC-NAT		Non-Reactive	Non-Reactive
HIV-NAT		Non-Reactive	Non-Reactive
HAV-NAT		Non-Reactive	Non-Reactive
HCV-NAT		Non-Reactive	Non-Reactive
Parvo B19-NAT		Non-Reactive	Non-Reactive
Physical Testing			
pH @ RT, 3% Solution		6.5-8.0	7.49
Biochemical Testing			
Purity	Cellulose Acetate Electrophoresis	≥98% of total protein	Pass
Iron	Cypress Diagnostics Assay	1200-1700 ppm	1347.4 ppm

Results shown were obtained by carefully performed methods believed to be reliable. However, since some results may vary for specific tests depending upon methodology and other variables, it is suggested that tests for which results are particularly important be repeated by the user of this product.

All human blood products are collected from stringently screened donors at FDA-licensed collection centers in the United States. All donors are tested and found to be negative for Indirect Antiglobulin.

Mark Weber 08JUL2019 [Signature] 08JUL2019

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