



**GEMINI**  
BIO-PRODUCTS

# Certificate of Analysis

Created November 7, 2018

**Product:** **holo-Transferrin**  
**Human**  
Powder

**Catalog #: 800-131P**  
**Lot #: H64W13I**  
**Origin: United States (100%)**

**Manufacture Date: Nov 2017**  
**Expiration Date: Nov 2022**

TEST	METHODOLOGY	SPECIFICATION	RESULTS
<b>Biological Testing</b>			
Bioburden	BBI SMP 1097	<10 cfu/mL	Pass
Endotoxin	LAL	≤1 EU/mg	<0.055 EU/mg
<b>Microbiological Testing</b>			
Mycoplasma		Not Detected	Not Detected
<b>Viral Testing</b>			
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
<b>Physical Testing</b>			
pH @ RT, 3% Solution		6.5-8.0	7.69
<b>Biochemical Testing</b>			
Purity	Cellulose Acetate Electrophoresis	≥98% of total protein	Pass

*For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use.*  
*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.*

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Created by/ date

Verified by/ date