



## CERTIFICATE OF ANALYSIS

**Human holo-Transferrin**

*Powder*

**(Catalog Number 800-131P)**

Lot Number: H123005

Origin: United States

Date of Manufacture: Feb2022

Storage Temperature: 2°C – 8°C

Product Expiry: Dec2026

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Bioburden	BBI SMP 1097	<10 cfu/mL	<10 cfu/mL
Endotoxin	LAL	≤1 EU/mg	<0.126 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		Negative	Negative
Syphilis		Negative	Negative
HBV-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>			
Appearance		Report	Salmon Pink to Reddish Powder
pH @ RT, 3% Solution		6.5 – 8.0	7.3
Moisture		≤5.0%	0.93%
Solubility		Readily Soluble at 1% in De-ionized water	Pass
Optical density		Report	12.48
<b>Biochemical Testing</b>			
Purity	Cellulose Acetate Electrophoresis	≥98% of total protein	Pass
Protein Analysis		>98%	102.21%
SDS-Polyacrylamide Gel		Conforms	Conforms
Iron Estimated by ICP		1200-1700 ppm	1255 ppm



## **CERTIFICATE OF ANALYSIS**

**Human holo-Transferrin**

**Powder**

**(Catalog Number 800-131P)**

**Lot Number: H123005**

*Results shown were obtained by carefully performed methods believed to be reliable. However, since some results may vary for specific tests depending on the methodology and other variables, it is suggested that tests for which results are particularly important to 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. Single homogenous batch, heat treated at  $62^{\circ}\text{C} \pm 2^{\circ}\text{C}$  for 10 hours and lyophilized from approximately 0.02M  $\text{NH}_4\text{HCO}_3$ . May contain traces of buffer salts. Dispensed by dry weight. Store at  $2^{\circ}\text{C} - 8^{\circ}\text{C}$ . Allow temperature to equilibrate to room temperature prior to use.*

The testing that has been performed as part of this lot release has been reviewed by Quality Assurance personnel and it has been confirmed that the testing meets the specifications presented on this Certificate of Analysis.

Karen Zuniga

Name

QA Associate I

Title

02 MAR 2023

Date