

# CERTIFICATE OF ANALYSIS

## HUMAN SERUM PROTEINS

### Human Transferrin (Apo)

**Product code:** T100-1

**Batch No:** 1193-20

**Product presentation:** Single homogenous batch, lyophilised from approximately 0.02M NH<sub>4</sub>HCO<sub>3</sub>. May contain traces of buffer salts. Dispensed by dry weight.

**Purity:** Nominally greater than 98% of the total protein is Transferrin.

**Starting material:** Normal human serum/plasma. Starting material donor tested and certified negative for HIV I & II antibodies, Hepatitis B surface antigen, and Hepatitis C antibody.

**Storage:** Store at 2-8°C, shelf life minimum 1 year.

Preparation in accordance with Scipac PSBR Doc. No. 0598.

<u>Analysis</u>	<u>Specifications</u>	<u>Results</u>
Appearance.	Report result.	Pale Pink Powder.
Protein content by Lowry assay.	96-104%.	101 %.
Purity by Cellulose Acetate Electrophoresis.	≥ 98% of total protein. Shows one band only indicating β <sub>1</sub> electrophoretic mobility.	Pass.
pH (3% solution).	7.0-8.0.	7.52.
Iron estimated by Cypress assay.	≤ 0.03 mg/g of protein.	0.0063 mg/g.
Endotoxin by LAL assay.	≤ 1.0 EU/mg.	<0.75 EU/mg.
Moisture by loss on drying.	≤ 5.0%.	0.2 %.
SDS-Polyacrylamide Gel.	Conforms. Shows a tight cluster of bands, corresponding electrophoresis. Transferrin molecular weight of approx. 77KD. Dimer may appear under certain conditions.	Pass.
Radial immunodiffusion (RID) using Behring standard.	Conforms. Confirms identity and correlates with dry weight determination.	Pass.

**Position:** ..... **Name:**.....

**Signed:** ..... **Date:** ..... **Order No:**.....