



CERTIFICATE OF ANALYSIS

Normal Human Serum

(Catalog Number 100-110-100)

Lot Number: H425014

Date of Manufacture: Aug2021

Product Expiry: Aug2026

Origin: United States

Storage Temperature: ≤-10°C

For Cell Culture, further Manufacturing or Research use only. Not for Direct Therapeutic use.

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	USP<85>	<10 EU/mL	<1.50 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1985)	<20.0 mg/dL	7.0 mg/dL
Microbiological Testing			
Sterility	USP<71>		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile, MF and Kern, J (1971)	Not Detected	Not Detected
Viral Testing			
HBsAg	21CFR 610.40		
Anti-HCV	ABBOTT ChLIA	Non-Reactive	Non-Reactive
Anti-HIV-1/HIV-2	ABBOTT ChLIA	Non-Reactive	Non-Reactive
Syphilis	ABBOTT ChLIA	Non-Reactive	Non-Reactive
HBV-NAT	ASI RPR	Negative	Negative
HIV-NAT	ROCHE NAT/PCR	Not Detected	Not Detected
HCV-NAT	ROCHE NAT/PCR	Not Detected	Not Detected
Physical Testing			
Osmolality	USP<785>	260-350 mOsm/kg	338 mOsm/kg
pH	USP<791>	Report	7.98
Biochemistry Testing			
Albumin		Report	3.5 g/dL
Bilirubin, Total		Report	0.3 mg/dL
Calcium		Report	>15.0 mg/dL
Chloride		Report	115 mmol/L
Cholesterol		Report	150 mg/dL
Creatinine		Report	0.82 mg/dL
Glucose		Report	99 mg/dL
Phosphorus		Report	3.1 mg/dL
Potassium		Report	3.9 mmol/L
Protein, Total		Report	5.3 g/dL
Sodium		Report	>165 mmol/L
Triglycerides		Report	114 mg/dL



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All human blood products are collected from stringently screened male donors at FDA-licensed collection centers in the United States. Results shown were obtained by carefully performed methods believed to be reliable. As 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. Lot specific samples are available at the customer's request and users are encouraged to evaluate the sample prior to purchase. Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance.

CAUTION: For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use. It is the responsibility of the user to undertake verification and testing to determine the suitability of this product's application. The statements herein are offered for informational purposes and are intended to be used solely for your consideration, investigation, and verification.

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

Karen Zmiga

Name

QA Associate II

Title

24 FEB 2025

Date