



CERTIFICATE OF ANALYSIS

Normal Human Serum

(Catalog Number 100-110-005, 100-110-100)

Lot Number: H426034

Date of Manufacture: Mar2026

Product Expiry: Mar2031

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>, EP 2.6.14	<10 EU/mL	<0.750 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	4.1 mg/dL
Microbiological Testing			
Sterility	USP<71>, EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	USP<63>	Not Detected	Not Detected
Viral Testing			
	21CFR 610.40		
HBsAg	Immunoassay	Negative / Non-Reactive	Non-Reactive
Anti-HCV	Immunoassay	Negative / Non-Reactive	Negative
Anti-HIV-1/HIV-2	Immunoassay	Negative / Non-Reactive	Negative
Syphilis	RPR	Negative / Non-Reactive	Negative
HBV-NAT	PCR / NAT	Negative / Non-Reactive	Non-Reactive
HIV-NAT	PCR / NAT	Negative / Non-Reactive	Non-Reactive
HCV-NAT	PCR / NAT	Negative / Non-Reactive	Non-Reactive
Physical Testing			
Osmolality	USP<785>, EP 2.2.35	260-350 mOsm/kg	319 mOsm/kg
pH	USP<791>	Test and Report	7.60
Biochemistry Testing			
Albumin		Test and Report	3.3 g/dL
Bilirubin, Total		Test and Report	0.2 mg/dL
Calcium		Test and Report	>15.0 mg/dL
Chloride		Test and Report	112 mmol/L
Cholesterol		Test and Report	141 mg/dL
Creatinine		Test and Report	0.82 mg/dL
Glucose		Test and Report	95 mg/dL
Phosphorus		Test and Report	3.0 mg/dL
Potassium		Test and Report	3.9 mmol/L
Protein, Total		Test and Report	5.1 g/dL
Sodium		Test and Report	>165 mmol/L
Triglycerides		Test and Report	74 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 Zuniga

Name

28 JUL 2020

Date

QA Specialist

Title