



CERTIFICATE OF ANALYSIS

Normal Human Serum

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

Lot Number: H424045

Date of Manufacture: Jul2021

Product Expiry: Jul2026

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 (1985)	<20.0 mg/dL	6.2 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			
HBsAg	21CFR 610.40		
Anti-HCV	ABBOT ChLIA	Non-Reactive	Non-Reactive
Anti-HIV-1/HIV-2	ABBOT ChLIA	Non-Reactive	Non-Reactive
Syphilis	ASI RPR	Negative	Negative
HBV-NAT	ROCHE NAT/PCR	Not Detected	Not Detected
HIV-NAT	ROCHE NAT/PCR	Not Detected	Not Detected
HCV-NAT	ROCHE NAT/PCR	Not Detected	Not Detected
Physical Testing			
Osmolality	USP<785>, EP 2.2.35	260-350 mOsm/kg	317 mOsm/kg
pH	USP<791>	Report	7.99
Biochemistry Testing			
Albumin		Report	3.3 g/dL
Bilirubin, Total		Report	0.3 mg/dL
Calcium		Report	>15.0 mg/dL
Chloride		Report	110 mmol/L
Cholesterol		Report	144 mg/dL
Creatinine		Report	0.78 mg/dL
Glucose		Report	95 mg/dL
Phosphorus		Report	3.0 mg/dL
Potassium		Report	3.7 mmol/L
Protein, Total	Biuret	Report	4.9 g/dL
Sodium		Report	>165 mmol/L
Triglycerides		Report	112 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

QA Associate II

Title

13NOV2024

Date