



Certificate of Analysis

Created January 3, 2019

Product: **Human Serum (Normal)**
0.1µm sterile-filtered

Catalog #: 100-110
Lot #: H86W03J
Origin: United States (100%)

Manufacture Date: Aug 2018
Expiration Date: Aug 2023

TEST	METHODOLOGY	RESULTS
Biological Testing		
Endotoxin	LAL	0.9 EU/mL
Hemoglobin		5.8 mg/dL
Microbiological Testing		
Sterility		
Bacteria		Not Detected
Fungi		Not Detected
Mycoplasma		Not Detected
Viral Testing		
HBsAg		Non-Reactive
Anti-HCV		Non-Reactive
Anti-HIV-1/HIV-2		Non-Reactive
Syphilis		Negative
HBV-NAT		Not Detected
HIV-NAT		Not Detected
HCV-NAT		Not Detected
Physical Testing		
Osmolality		282 mOsm/kg
pH		7.6



Biochemical Testing

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Albumin		3.6 g/dL
Bilirubin, Total		0.3 mg/dL
Calcium		2.3 mM
Chloride		118 mM
Cholesterol		127 mg/dL
Creatinine		Pending mg/dL
Glucose		5.16 mM
Phosphorus		0.90 mM
Potassium		3.8 mM
Protein, Total		5.6 g/dL
Sodium		138 mM
Triglycerides		76 mg/dL

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.

Mark Weber 01042019
Created by/ date

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Verified by/ date