CERTIFICATE OF ANALYSIS

Human Serum AB

(Off the Clot)

(Catalog Number 100-318)

Lot Number: H021001

Origin: United States

Date of Manufacture: Jan2021

Product Expiry: Jan2023

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

Storage Temperature: ≤ -10°C

Product description: *Human Serum AB is collected from healthy male donors of the AB serotype at FDA-licensed facilities located in the United States. Donor units are tested for infectious disease markers prior to processing and found to be non-reactive. Human Serum AB (Off the clot) is sterile-filtered through a 0.1 µm filter prior to freezing.*

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	USP<85>, EP 2.6.14	< 10.0EU/ mL	<2.19 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1985)	<20.0 mg/ dL	4.18 mg/dL
Microbiological Testing			
Sterility	USP<71>, EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile, MF and Kern, J (1971), EP 2.6.7	Not Detected	Pending
Viral Testing	21CFR 610.40		
HBsAg	ABBOTT ChLIA	Non-Reactive	Non-Reactive
Anti-HCV	ABBOTT ChLIA	Non-Reactive	Non-Reactive
Anti-HIV-1/ HIV-2	ABBOTT 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
Zika	Investigational NAT	Not Detected	Not Detected
WNV RNA		Not Detected	Not Detected
Chagas		Not Detected	Not Detected
Physical Testing			
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/ kg	291 mOsm/kg
pH	USP<791>	Test and Report	8.06

Test	Methodology	Specification	Analysis
Biochemistry			
Albumin		Test and Report	4.1 g/dL
ALT (SGPT)		Test and Report	8 U/L
AST (SGOT)		Test and Report	5 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	14 mg/dL
Calcium		Test and Report	9.1 mg/dL
Chloride		Test and Report	103 mmol/L
Cholesterol		Test and Report	126 mg/dL
Creatinine		Test and Report	0.98 mg/dL
Glucose		Test and Report	102 mg/dL
Phosphorus		Test and Report	102 mg/dL
Potassium		Test and Report	4.4 mmol/L
Protein, Total	Biuret	Test and Report	6.8 g/dL
Sodium		Test and Report	139 mmol/L
Triglycerides		Test and Report	63 mg/dL
Uric Acid		Test and Report	4.7 mg/dL

All blood products are collected from stringently screened male donors at FDA-licensed collection centers located in the United States. This product is a pool of > 100 donor units and the viral testing is performed on the individual donor units. All other testing is performed on the final product pool prior to release. Universal precautions should be used when handling this material. Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance. Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance.

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.

Sinna Z Khan

Name

QC Associate

Title

12 FEB 2021

Date