CERTIFICATE OF ANALYSIS

GemCell™ Human Serum AB XF

(Catalog Number 100-512XF)

Lot Number: H424008

Date of Manufacture: May2021

Product Expiry: May2026

Origin: United States

Storage Temperature: ≤ -10°C

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

Product Description: *GemCell™ Human Serum AB XF 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. GemCell™ Human Serum AB XF is converted to serum from human plasma using human thrombin and sterile-filtered through a 0.1 µm filter prior to freeze.*

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	USP<85>, EP 2.6.14	< 10.0 EU/mL	<0.750 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1985)	< 20.0 mg/dL	7.3 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	Not Detected
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
Physical Testing			
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/kg	322 mOsm/kg
pH	USP<791>	Test and Report	7.97
Biochemistry Testing			
Albumin		Test and Report	3.2 g/dL
ALT (SGPT)		Test and Report	5 U/L
AST (SGOT)		Test and Report	14 U/L
Bilirubin, Total		Test and Report	0.3 mg/dL
BUN		Test and Report	12 mg/dL
Calcium		Test and Report	>15.0 mg/dL

GeminiBio

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Test	Methodology	Specification	Analysis
Chloride		Test and Report	110 mmol/L
Cholesterol		Test and Report	143 mg/dL
Creatinine		Test and Report	0.78 mg/dL
Glucose		Test and Report	93 mg/dL
Phosphorus		Test and Report	3.0 mg/dL
Potassium		Test and Report	3.7 mmol/L
Protein, Total		Test and Report	5.0 g/dL
Sodium		Test and Report	>165 mmol/L
Triglycerides		Test and Report	109 mg/dL
Uric Acid		Test and Report	5.0mg/dL

All blood products are collected from stringently screened male donors at FDA-licensed collection centers located in the United States. Viral testing is performed on the individual donor units. All other testing is performed on the final product pool prior to release. Material is derived from human blood and should be considered biohazardous. 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.

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.

VANESSA YOUNG
Name

QA ASSOCIATE II
Title

13MAR2024
Date