

CERTIFICATE OF ANALYSIS

GemCell™ Plus Xeno-Free Human Serum AB

(Catalog Number 100-912-100, 100-912-005)

Lot Number: H425020

Date of Manufacture: Apr2025

Product Expiry: Apr2030

Origin: United States

Storage Temperature: ≤ -10°C

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

Product Description: GemCellTM Plus Xeno-Free 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. GemCellTM Plus Xeno-Free Human Serum AB is converted to serum from human plasma using recombinant human thrombin and sterile-filtered through a 0.1 µm filter prior to freeze.

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	USP<85 <mark>>, EP 2.6.14</mark>	< 10.0 EU/mL	<1.25 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ	< 20.0 mg/dL	3 mg/dL
	(1965)		
Microbiological Testing			
Sterility	USP<71>, EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile, MF & Kern, J (1971)	Not Detected	Not Detected
Viral Testing	21 CFR 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
Anti-HBc IgG		Non-Reactive	Non-Reactive
Anti-HTLV I/II		Non-Reactive	Non-Reactive
Anti-HBc IgM		Non-Reactive	Non-Reactive
W <mark>est Nile V</mark> irus NAT		Non-Reactive	Non-Reactive
Chagas		Non-Reactive	Non-Reactive
Viral Testing Finished Pool L	evel		
HBcAB		Non-Reactive	Non-Reactive
HTLV-I/II		Non-Reactive	Non-Reactive
West Nile Virus		Not Detected	Not Detected
Chagas		Non-Reactive	Non-Reactive



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(Catalog Number 100-912-100, 100-912-005)

Lot Number: H425020

Test	Methodology	Specification	Analysis
Physical Testing			
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/kg	332 mOsm/kg
pH @RT	USP<791>	Test and Report	7.65
Biochemistry Testing			
Albumin		Test and Report	3.6 g/dL
ALT (SGPT)		Test and Report	8 U/L
AST (SGOT)		Test and Report	11 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	14 mg/dL
Calcium		Test and Report	>15.0 mg/dL
Chloride		Test and Report	115 mmol/L
Cholesterol		Test and Report	123 mg/dL
Creatinine		Test and Report	0.81 mg/dL
Glucose		Test and Report	92 mg/dL
Phosphorus		Test and Report	3.2 mg/dL
Potassium		Test and Report	3.9 mmol/L
Protein, Total		Test and Report	5.3 g/dL
Sodium		Test and Report	>165 mmol/L
Triglycerides		Test and Report	59 mg/dL
Uric Acid		Test and Report	3.6 mg/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.

081012025

Date

Karen Zuniga

Name

QA Associate 11

Title

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