

## **Certificate of Analysis**

Created October 9, 2019

**Product:** 

GemCell™ Human Serum AB

**Heat Inactivated\*** 

0.1µm sterile-filtered

Catalog #: 100-512 Lot #: H87X00K

Origin: United States (100%)

Manufacture Date: Aug 2019 Expiration Date: Aug 2024

<b>T</b> EST	<b>M</b> ETHODOLOGY	SPECIFICATION	RESULTS
Dialogical Tasking			
Biological Testing	UOD -OF-	. 40 5117	.0.500.511.4
Endotoxin	USP<85>	< 10 EU/mL	<0.500 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965	) <20.0 mg/dL	8.1 mg/dL
Microbiological Testing			
Sterility	USP<71>		
Bacteria		Not Detected	Not Detected
Fungi		Not Detected	Not Detected
Mycoplasma	Barile, MF and Kern, J (1971)	Not Detected	Not Detected
Viral Testing	21 CFR 610.40		
HBsAg		Non-Reactive	Non-Reactive
Anti-HCV		Non-Reactive	Non-Reactive
Anti-HIV-1/HIV-2		Non-Reactive	Non-Reactive
Syphilis		Negative	Negative
HBV-NAT		Not Detected	Not Detected
HIV-NAT		Not Detected	Not Detected
HCV-NAT		Not Detected	Not Detected
Physical Testing			
Osmolality	USP<785>	260-350 mOsm/kg	326 mOsm/kg
рН	USP<791>	Report	7.77



## **Biochemical Testing**

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TEST	<b>M</b> ETHODOLOGY	SPECIFICATION	RESULTS
Albumin		Test and Report	3.7 g/dL
ALT (SGPT)		Test and Report	10 U/L
AST (SGOT)		Test and Report	15 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	13 mg/dL
Calcium		Test and Report	>3.75 mM
Chloride		Test and Report	118 mM
Cholesterol		Test and Report	147 mg/dL
Creatinine		Test and Report	0.88 mg/dL
Glucose		Test and Report	5.83 mM
Phosphorus		Test and Report	1.0 mM
Potassium		Test and Report	3.9 mM
Protein, Total	Biuret	Test and Report	5.5 g/dL
Sodium		Test and Report	>165 mM
Triglycerides		Test and Report	115 mg/dL
Uric Acid		Test and Report	4.0 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 prior to Heat Inactivation. 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.

Created by/ date

MM 096(12M)

Verified by/ date

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