

Certificate of Analysis

Created October 23, 2019

Product:

GemCell™ Human Serum AB

0.1µm sterile-filtered

Catalog #: 100-512 Lot #: H98X00K

Origin: United States (100%)

Manufacture Date: Aug 2019 Expiration Date: Aug 2024

Test	METHODOLOGY S	Specification	RESULTS
Biological Testing			
Endotoxin	USP<85>	< 10 EU/mL	<0.500 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	6.8 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	5/ 11 6 261 10	Non-Reactive	Non-Reactive
Anti-HCV		Non-Reactive	Non-Reactive
Anti-HIV-1/HIV-2		Non-Reactive	Non-Reactive
Syphilis	7	Negative	Negative
HBV-NAT		Not Detected	Not Detected
HIV-1 NAT		Not Detected	Not Detected
HCV-NAT		Not Detected	Not Detected
Physical Testing			
Osmolality	USP<785>	260-350 m0sm/kg	320 m0sm/kg
рH	USP<791>	Report	7.89



Biochemical Testing

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TEST	M ETHODOLOGY	SPECIFICATION	RESULTS
Albumin	0	Test and Report	3.3 g/dL
ALT (SGPT		Test and Report	9 U/L
AST (SGOT)	Test and Report	12 U/L
Bilirubin, 1	otal	Test and Report	0.2 mg/dL
BUN		Test and Report	12 mg/dL
Calcium		Test and Report	>3.75 mM
Chloride		Test and Report	_113 mM
Cholester	I	Test and Report	137 mg/dL
Creatinine		Test and Report	0.89 mg/dL
Glucose		Test and Report	5.1 mM
Phosphoru	s	Test and Report	1 mM
Potassium		Test and Report	3.8 mM
Protein, To	tal Biuret	Test and Report	5.2 g/dL
Sodium		Test and Report	>165 mM
Triglycerid	es ·	Test and Report	84 mg/dL
Uric Acid	40	Test and Report	3.5 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.

Created by/ date

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