

GemCell™ Select Human Serum AB (Part Number 100-812b) Heat Inactivated*

Lot Number:

H12Y00Kb5

Date of Manufacture: Sep2021

Product Expiry: Sep2024

Origin:

United States

Storage Temperature: ≤ -10°C

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

Product description: GemCell™ Select 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. Gemcell™ Select Human Serum is converted to serum from human plasma using bovine 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 | 7.1 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 |
| HAV RNA | | Non-Reactive | Non-Reactive |
| Parvo B19 DNA | | Non-Reactive | Non-Reactive |
| Atypical Antibodies | | Negative | Negative |
| Viral Testing Finished Pool | l Level | | |
| HBcAB | | Non-Reactive | Non-Reactive |
| HTLV-I/II | | Non-Reactive | Non-Reactive |
| West Nile Virus | | Not Detected | Not Detected |
| Chagas | | Non-Reactive | Non-Reactive |
| HEV IgG | | Non-Reactive | Non-Reactive |



CERTIFICATE OF ANALYSIS

H12Y00Kb5

104 mg/dL

3.1 mg/dL

4.0 mmol/L

5.3 g/dL

>165 mmol/L

75 mg/dL

3.7 mg/dL

(Part Number 100-812b) Heat Inactivated*

Lot Number:

Biuret

Glucose

Phosphorus

Protein, Total

Triglycerides

Potassium

Sodium

Uric Acid

GemCell™ Select Human Serum AB

| Test | Methodology | Specification | Analysis |
|------------------|---------------------|--------------------|--|
| Physical Testing | | - | ************************************** |
| Osmolality | USP<785>, EP 2.2.35 | 260 - 350 mOsm/ kg | 350 mOsm/kg |
| pH @ RT | USP<791> | Test and Report | 7.65 |
| Biochemistry | | | |
| Albumin | | Test and Report | 3.5 g/dL |
| ALT (SGPT) | | Test and Report | 4 U/L |
| AST (SGOT) | | Test and Report | 7 U/L |
| Bilirubin, Total | | Test and Report | 0.2 mg/dL |
| BUN | | Test and Report | 13 mg/dL |
| Calcium | | Test and Report | >15.0 mg/dL |
| Chloride | | Test and Report | 117 mmol/L |
| Cholesterol | | Test and Report | 137 mg/dL |
| Creatinine | | Test and Report | 0.87 mg/dL |

Test and Report

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GemCell SelectTM Human Serum AB is collected from a maximum of 16 healthy male donors of the AB serotype at FDA-licensed facilities in the United States. This material is defibrinated from source and the viral testing is performed on the individual donor units. All other testing is performed on the final product pool prior to release. The bovine thrombin that is used as part of the conversion to serum is sourced from controlled herds located in the United States and the source cattle are ante and post-mortem inspected by a U.S. Veterinary Service Inspector where they were deemed free of infectious and contagious diseases. All animals used in the production of the thrombin were from a natural beef program in accordance with FDA regulations. Material is derived from human blood and should be considered biohazardous. Universal precautions should be used when handling this material. Precipitate may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance. *Results shown were obtained by carefully performed methods believed to be reliable prior to heat inactivation.

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 | QA ASSOCIATE 11 |
|---------------|-----------------|
| Name | Title |
| 10 AUG2022 | |
| Date | |