

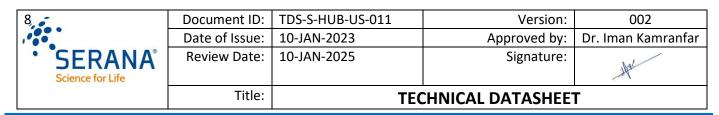
Human Male AB Plasma-Derived Serum

| Filtration, Treatment | Manufactured with Bovine Thrombin/Triple 0.1 μm sterile filtered | |
|-----------------------|--|--|
| Origin | US | |
| Product Code | S-HUB-US-011 | |
| Preservative | None | |
| Shelf Life | 5 years from DOM | |
| Storage Temperature | <-15°C | |
| Shipping Temperature | dry ice | |

QC Specifications

| Physical and Chemical Analysis | Method | Specifications | Units |
|--------------------------------|----------------------|-----------------------------|---------|
| Identity | Internally Validated | Human | n/a |
| Appearance | Visual | Straw yellow to clear amber | n/a |
| pH at RT | Electronic pH Meter | 7.0 - 9.0 | n/a |
| Osmolality | Osmometer | 260 - 350 | mOsm/kg |
| Endotoxin | LAL Kinetic | ≤ 10.0 | EU/ml |
| Hemoglobin | Colorimetric | ≤ 30 | mg/dl |
| | | 1 | |
| Sterility | | | |
| Aerobic Bacteria | 9CFR113.26 | Not detected | n/a |
| Anaerobic Bacteria | 9CFR113.26 | Not detected | n/a |
| Fungi (yeast & Mold) | 9CFR113.26 | Not detected | n/a |
| Mycoplasma | qPCR | Not detected | n/a |
| | | · | |
| Protein Profile | | | |
| Total Protein | Chemistry analyzer | 4.0 - 9.0 | g/dl |
| Albumin | Chemistry analyzer | Test and Report | g/dl |
| Globulin | Chemistry analyzer | Test and Report | g/dl |
| A/G Ratio (Calc) | Chemistry analyzer | Test and Report | n/a |
| Anti-A/Anti-B testing | | Not detected | n/a |
| | | | |
| Biochemistry | | | |
| AST (SGOT) | Chemistry analyzer | Test and Report | U/L |
| ALT (SGPT) | Chemistry analyzer | Test and Report | U/L |
| Total Bilirubin | Chemistry analyzer | Test and Report | mg/dL |
| Blood Urea Nitrogen (BUN) | Chemistry analyzer | Test and Report | mg/dL |
| Cholesterol | Chemistry analyzer | 110 - 210 | mg/dL |
| Glucose | Chemistry analyzer | 60 - 140 | mg/dL |
| Triglyceride | Chemistry analyzer | 35 - 175 | mg/dL |
| Creatinine | Chemistry analyzer | Test and Report | mg/dL |
| Albumin/Creatinine Ratio | Chemistry analyzer | Test and Report | g/mg Cr |
| Carbon Dioxide | Chemistry analyzer | Test and Report | mEq/L |
| Calcium | Chemistry analyzer | < 12 | mg/dL |
| Potassium | Chemistry analyzer | Test and Report | mEq/L |
| Sodium | Chemistry analyzer | 100 - 200 | mmol/L |
| Chloride | Chemistry analyzer | 85 - 130 | mmol/L |
| Alkaline Phosphate | Chemistry analyzer | Test and Report | U/L |
| Phosphorus | Chemistry analyzer | Test and Report | mg/dL |
| Iron | Chemistry analyzer | Test and Report | μg/dL |
| IgG | Chemistry analyzer | Test and Report | mg/dL |
| Fibrinogen | Chemistry analyzer | Test and Report | mg/dL |
| Uric acid | Chemistry analyzer | Test and Report | mg/dL |
| GGT | Chemistry analyzer | Test and Report | U/L |
| | | | |
| Viral Markers | | | |
| Anti-HIV I/II | 9CFR113.53 | Negative / Non-reactive | n/a |
| HBsAg | 9CFR113.53 | Negative / Non-reactive | n/a |
| Anti-HCV | 9CFR113.53 | Negative / Non-reactive | n/a |
| HIV p24 Ag | 9CFR113.53 | Negative / Non-reactive | n/a |
| HTLV I/II | 9CFR113.53 | Negative / Non-reactive | n/a |
| Syphilis | 9CFR113.53 | Negative / Non-reactive | n/a |
| Anti-HBc | 9CFR113.53 | Negative / Non-reactive | n/a |





| Atypical Antibody | 9CFR113.53 | Negative / Non-reactive | n/a |
|------------------------|------------|-------------------------|-----|
| HIV-1 RNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| HBV DNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| HCV RNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| HAV RNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| Parvovirus B19 DNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| WNV RNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| Chagas | 9CFR113.53 | Negative / Non-reactive | n/a |
| Zika Virus RNA | 9CFR113.53 | Negative / Non-reactive | n/a |
| Species Identification | | | |
| Cat | | Not detected | n/a |
| Cattle | | Not detected | n/a |
| Deer | | Not detected | n/a |
| Dog | | Not detected | n/a |
| Goat | | Not detected | n/a |
| Horse | | Not detected | n/a |
| Mouse | | Not detected | n/a |
| Pig | | Not detected | n/a |
| Rabbit | | Not detected | n/a |
| Rat | | Not detected | n/a |
| Sheep | | Not detected | n/a |

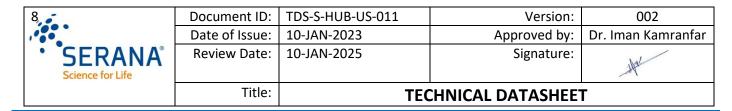
All units of Human AB serum have been collected from the whole blood donation of healthy male donors in the USA in FDA licensed facilities and tested for infectious diseases with FDA approved test systems. The number of donors will be mentioned for each batch in the issued Certificate of Analysis.

The product is intended for In vitro, further manufacturing use, or cell culture.

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RECOMMENDED USE:

Storage

To effectively preserve the integrity of animal serum, it should be stored frozen and protected from light. The recommended storage temperature is <-15°C.

Multiple thaw/freeze cycles should be avoided, as they will accelerate the degradation of serum nutrients and can encourage the formation of insoluble precipitates. For this reason, serum should never be stored in "frost-free" freezers. These types of freezers periodically warm themselves to avoid internal ice deposits and are detrimental to the stability of frozen serum products.

Suggested Thawing Procedure

- Remove the serum bottles from the freezer and allow them to adjust to room temperature for approximately 10 minutes.
- 2. Place each container in a 30 to 37 °C water bath or incubator. Excessive temperatures will degrade heat labile nutrients. If using a water bath, prevent the bottle caps from being submerged.
- 3. Gently agitate the bottles every 10 15 minutes until the serum is completely thawed.

Efficient and Effective Usage

After thawing, use the serum promptly. Liquid serum may be stored refrigerated (2 to 8 °C) up to four weeks. To avoid thaw/freeze cycles or long periods of refrigeration, it is recommended that any unused serum be immediately dispensed into small, useful aliquots and refrozen for future use.

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