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	Date of Issue:	10-JAN-2022	Approved by:	Dr. Iman Kamranfar
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	Title:	TECHNICAL DATA SHEET		

SPECIMEN

Product Name	Human Male AB Serum	
Treatment/ Filtration	Triple 0.1 µm sterile filtered	
Origins	United States	
Product Codes	S-HU-US-011 (100mL) , S-HU-US-015 (500 mL)	
Preservative	None	
Shelf Life	5 Years from DOM	
Storage Temperature	<-15°C	
Shipping Temperature	Dry ice	
Physical and Chemical Analysis	Specifications	Units
Appearance	Straw yellow to clear amber	n/a
pH	7.0 - 9.0	n/a
Osmolality	260 - 350	mOsm/kg
Endotoxin	≤ 10.0	EU/mL
Hemoglobin	≤ 30	mg/dL
Protein Profile		
Total Protein	4.0 – 9.0	g/dL
Albumin	Test and Report	g/dL
Globulin	Test and Report	g/dL
A/G Ratio (Calc)	Test and Report	n/a
Anti-A/Anti-B testing	Not detected	n/a
Sterility		
Aerobic Bacteria	Not detected	n/a
Anaerobic Bacteria	Not detected	n/a
Fungi (Yeast & Mold)	Not detected	n/a
Mycoplasma	Not detected	n/a
Biochemistry		
AST (SGOT)	Test and Report	U/L
ALT (SGPT)	Test and Report	U/L
Total Bilirubin	Test and Report	mg/dL
Blood Urea Nitrogen (BUN)	Test and Report	mg/dL
Cholesterol	110 - 210	mg/dL
Glucose	60 - 140	mg/dL
Triglyceride	35 - 175	mg/dL
Creatinine	Test and Report	mg/dL
Albumin/Creatinine Ratio	Test and Report	g/mg Cr
Carbon Dioxide	Test and Report	mEq/L
Calcium	< 12	mg/dL
Potassium	Test and Report	mEq/L
Sodium	100 - 200	mmol/L
Chloride	85 - 130	mmol/L
Alkaline Phosphate	Test and Report	U/L
Phosphorus	Test and Report	mg/dL
Iron	Test and Report	mg/dL
IgG	Test and Report	mg/dL
Fibrinogen	Test and Report	mg/dL
Uric acid	Test and Report	mg/dL
GGT	Test and Report	U/L



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Viral Markers	Specifications	Units
Anti-HIV I/II	Negative / Non-reactive	n/a
HBsAg	Negative / Non-reactive	n/a
Anti-HCV	Negative / Non-reactive	n/a
HIV p24 Ag	Negative / Non-reactive	n/a
HTLV I/II	Negative / Non-reactive	n/a
Syphilis	Negative / Non-reactive	n/a
Anti-HBc	Negative / Non-reactive	n/a
Atypical Antibody	Negative / Non-reactive	n/a
HIV-1 RNA	Negative / Non-reactive	n/a
HBV DNA	Negative / Non-reactive	n/a
HCV RNA	Negative / Non-reactive	n/a
HAV RNA	Negative / Non-reactive	n/a
Parvovirus B19 DNA	Negative / Non-reactive	n/a
WNV RNA	Negative / Non-reactive	n/a
Chagas	Negative / Non-reactive	n/a
Zika Virus RNA	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 the serum, it should be stored frozen and protected from light. The recommended storage temperature is $<-15^{\circ}\text{C}$.

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

1. 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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