	Title:	TECHNICAL DATASHEET		
• SERANA Science for Life	Review Date:	10-JAN-2027	Signature:	iter
	Date of Issue:	10-JAN-2025	Approved by:	Dr. Iman Kamranfar
1000	Document ID:	TDS-S-HUB-US-031	Version:	003

Human Male AB Plasma-Derived Serum. Gamma Irradiated

Filtration, Treatment	Manufactured with Bovine Thrombin/Triple 0.1 µm sterile filtered. Gamma Irradiated		
Origin	US		
Product Code	S-HUB-US-031		
Preservative	None		
Shelf Life	5 years from DOM		
Storage Temperature	<-15°C		
Shipping Temperature	dry ice		

QC Specifications

Method	Specifications	Units
Internally Validated	Human	n/a
Visual	Straw yellow to clear amber	n/a
Electronic pH Meter	7.0 - 9.0	n/a
Osmometer		mOsm/kg
LAL Kinetic		EU/ml
		mg/dl
		0, *
9CFR113.26	Not detected	n/a
9CFR113.26	Not detected	n/a
9CFR113.26	Not detected	n/a
qPCR	Not detected	n/a
		-
Chemistry analyzer	4.0 - 9.0	g/dl
Chemistry analyzer	Test and Report	g/dl
Chemistry analyzer	Test and Report	g/dl
Chemistry analyzer	Test and Report	n/a
	Not detected	n/a
Chemistry analyzer	Test and Report	U/L
Chemistry analyzer	Test and Report	U/L
Chemistry analyzer	Test and Report	mg/dL
Chemistry analyzer	Test and Report	mg/dL
Chemistry analyzer	110 - 210	mg/dL
Chemistry analyzer	60 - 140	mg/dL
Chemistry analyzer	35 - 175	mg/dL
Chemistry analyzer	Test and Report	mg/dL
Chemistry analyzer	Test and Report	g/mg Cr
Chemistry analyzer	Test and Report	mEq/L
Chemistry analyzer		mg/dL
Chemistry analyzer	Test and Report	mEq/L
Chemistry analyzer	100 - 200	mmol/L
	85 - 130	mmol/L
Chemistry analyzer	Test and Report	U/L
		mg/dL
Chemistry analyzer	Test and Report	μg/dL
		mg/dL
	Test and Report	mg/dL
		mg/dL
Chemistry analyzer	Test and Report	U/L
QCER113 52	Negative / Non-reactive	n/a
		n/a n/a
	-0	n/a n/a
		n/a
		n/a
		n/a n/a
	Internally Validated Visual Electronic pH Meter Osmometer LAL Kinetic Colorimetric 9CFR113.26 9CFR113.26 9CFR113.26 9CFR113.26 qPCR Chemistry analyzer Chemistry analyzer	Internally Validated Human Visual Straw yellow to clear amber Electronic pH Meter 7.0 - 9.0 Osmometer 260 - 350 LAL Kinetic ≤ 10.0 Colorimetric ≤ 30 9CFR113.26 Not detected 9CFR113.27 Test and Report Chemistry analyzer Test and

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TECHNICAL DATASHEET

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.

Gamma irradiation is performed through a validated process.

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

- 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.