

## Certificate of Analysis

### RUO Human Serum - Type AB from Human Male AB Whole Blood

#### Product Information

Product #: HUMANABSRMC-1  
 Lot# / Sample ID#: 24040020  
 Storage temperature: -20°C  
 Expiration Date: 30APR2029  
 Date of Manufacture: 08APR2024  
 Number of Donors: 219

#### Quality Control

Test	Specification	Result
Physical Appearance	Clear, straw yellow	Clear, straw yellow
pH (room temp.)	7.0-9.0	7.1
Osmolality	260-330 mOsm/kg	286 mOsm/kg
Hemoglobin	<25 mg/dl	3.3 mg/dl
Sterility	Sterile	Sterile
Mycoplasma	Negative	Negative
Endotoxin	<10 EU/mL	3.1 EU/mL
Glucose	60-140 mg/dl	108 mg/dl
Sodium	110-160 mEq/L	138 mEq/L
Potassium	3.0-5.5 mEq/L	4.7 mEq/L
Chloride	100-130 mEq/L	100 mEq/L
Calcium	6.5-11.5 mg/dl	9.2 mg/dl
Phosphorus	2.2-7.0 mg/dl	4.0 mg/dl
Iron	Result	79 ug/dl
Creatinine	Result	1.03 mg/dl
Total Protein	4.8-8.3 gm/dl	7.2 gm/dl
Albumin	3.0-5.5 gm/dl	4.4 gm/dl
Total Bilirubin	0.0-1.5 mg/dl	<0.2 mg/dl
Cholesterol	80-200 mg/dl	159 mg/dl
Triglyceride	30-160 mg/dl	103 mg/dl
ALT	Result	9 U/L
AST	Result	11 U/L
BUN	Result	12 mg/dl
GGT	Result	26 U/L
Uric Acid	Result	5.0

<b>Xeno (BSE/TSE)</b>	Result	Negative
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### Regulatory

Test	Specification	Result
<b>HIV 1 RNA</b>	Non-reactive	Non-reactive
<b>Anti HIV 1/2</b>	Negative	Negative
<b>HBV NAT</b>	Non-reactive	Non-reactive
<b>Anti HBsAg</b>	Non-reactive	Non-reactive
<b>HCV RNA</b>	Non-reactive	Non-reactive
<b>Anti HCV</b>	Negative	Negative
<b>WNV RNA</b>	Negative	Negative
<b>Syphilis</b>	Negative	Negative
<b>Chagas</b>	Negative	Negative
<b>HTLV I/II</b>	Negative	Negative

Male donors blood type AB, collected in FDA registered commercial donor establishments located in the USA and processed in an FDA registered facility located in the USA, in accordance with applicable regulatory and ethical standards.

This product is being sold for further manufacturing only. It is not to be used in humans or animals. For in vitro use only. The user assumes all responsibility for its usage and disposal in accordance with all regulations. The material should be handled as if capable of transmitting infectious agents. Please use universal precautions. No test method can provide total assurance against Hepatitis Virus, Human Immunodeficiency Virus, or other infectious agents that are absent. All blood products should be handled at the Bio-Safety Level 2.

**Jazzmyn Bower**  
Quality Control Specialist



**DATE:** 08Oct2024

**BioIVT is committed to sourcing human and animal biological material in accordance with the highest ethical and regulatory standards.**