

# Human Serum (Normal)

Catalog # 100-110

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## PRODUCT DESCRIPTION:

Gemini's normal human serum is collected from healthy male and female donors of all ABO serotypes at FDA-licensed facilities in the United States. This material is defibrinated from source plasma. All donor units are tested for viral markers and found to be non-reactive.

- 0.1 µm sterile-filtered

Precautions: Non-Hazardous Ingredients: Blood Plasma (Human)

The product contains no substances that are considered hazardous to health at their given concentration. Although the human plasma used to manufacture this product has been tested and shown to be negative for infectious agents, no test is 100% accurate. All materials derived from human plasma should be handled as if capable of transmitting infection.

## INSTRUCTIONS FOR USE

### Receipt and Storage:

Ships on dry ice. Store frozen at -20 to -10°C.

### Thawing Instructions:

When preparing human serum for use, it should be allowed to thaw gradually, either at room temperature or in a refrigerator at a temperature of 2-8°C overnight to minimize thermodynamic stress to the material.

### Appearance:

Straw-like or amber color. It could be slightly cloudy and may contain precipitates due to freezing and/or thawing; this occurrence does not impact culture performance.

### Stability:

If stored frozen (-20 to -10°C), product expiration is 5 years from manufacture.

### Preparation and Use:

We strongly recommend using the entire 100 mL bottle when first thawed. If it is not possible for your intended use, we recommend that you minimize the number of freeze/thaw cycles the product will undergo by aliquoting the serum into containers of a single-use volume.

Biological Testing	
Endotoxin	<10 EU/mL
Hemoglobin	<20.0 mg/dL
Sterility	
Bacteria	Not Detected
Fungi	Not Detected
Mycoplasma	Not Detected
Viral Testing	



HBsAg	Non-Reactive
Anti-HCV	Non-Reactive
Anti-HIV-1/HIV-2	Non-Reactive
Syphilis	Negative
HBV-NAT	Not Detected
HIV-NAT	Not Detected
HCV-NAT	Not Detected
<b>Physical Testing</b>	
Osmolality	260-350 mOsm/kg
pH	Test and Report
<b>Biochemistry</b>	
Albumin	Test and Report
Bilirubin, Total	Test and Report
Calcium	Test and Report
Chloride	Test and Report
Cholesterol	Test and Report
Creatinine	Test and Report
Glucose	Test and Report
Phosphorus	Test and Report
Potassium	Test and Report
Protein, Total	Test and Report
Sodium	Test and Report
Triglycerides	Test and Report
Storage	Store frozen at $\leq -10^{\circ}\text{C}$
Form	Liquid
Expiration	Five years from the date of manufacture
Handling	Biohazardous; contains human source material. Handle as though capable of transmitting infectious agents.

For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use.