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Review Date:	10-JAN-2027	Signature:	
Title:	**TECHNICAL DATASHEET**		

Rat Serum

Filtration, Treatment	0.2µm sterile filtered
Origin	EU
Product Code	S-RT-EU-011
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	Rat	n/a
pH at RT	Electronic pH Meter	7.0 – 8.0	n/a
Osmolality	Osmometer	260 – 350	mOsm/kg
Endotoxin	LAL Kinetic	< 50	EU/ml
Hemoglobin	Colorimetric	< 50	mg/dl
Sterility			
Aerobic Bacteria	Internally Validated	Not detected	n/a
Anaerobic Bacteria	Internally Validated	Not detected	n/a
Fungi (yeast & Mold)	Internally Validated	Not detected	n/a
Protein Profile			
Total Protein	IDEXX Catalyst One	3.5 - 6.0	g/dl

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.

Product use: This product is not intended for human or animal consumption or therapeutic use.