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	Title:	TECHNICAL DATASHEET		

Alsever's Solution

Filtration, Treatment	0.1µm sterile filtered, suitable for cell culture & and hematology research
Product Code	ALS-001-500ML
Shelf Life	24 months from DOM
Storage Temperature	2 – 8 °C (in darkness)
Shipping Temperature	Ambient (in darkness)

QC Specifications

Physical and Chemical Analysis	Method	Specifications	Units
Appearance	Visual	Clear colorless solution	n/a
pH at RT	Electronic pH Meter	5.9 – 6.5	n/a
Endotoxin	LAL Kinetic	<1.0	EU/ml
Osmolality	Osmometer	310-350	mOsm/kg
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

Product Description and Applications

Alsever et al., (1941) introduced this solution as anticoagulant and blood preservative medium which has been widely used. Alsever's solution is an isotonic, isosmotic 1X balanced salt solution which permits the storage of whole blood at refrigerator temperatures for approximately 10 weeks. The advantage of using Alsever's Solution is its ability to support antigenic life of erythrocytes or red blood cells (RBC's), enabling its use with RBC's panels as well as RBC's drawn for serological investigation. Alsever's Solution is not restricted to human red blood cells; it is also used to preserve red blood cells from animals.

Instruction to Use

1. Collect the equal volume of the blood into a container of this product.
2. Gently and but thoroughly, mix blood and solution
3. . Keep the mix at 2-8 °C.

Alternatively:

1. Wash the freshly collected red blood cells twice in PBS or isotonic saline.
2. then wash with the Alsever's Solution.
3. Suspend the red cells to the desired concentration in Alsever's Solution.
4. Keep the suspension at 2-8 °C to be used up to 10 weeks.

Precautions and Disclaimer

Follow all universal safety guidelines governing work with biohazardous materials when you are working with blood samples:

- Wear lab coats, gloves, and safety glasses at all times.
- Properly dispose of all contaminated materials, decontaminate work surfaces, and use a biosafety cabinet whenever aerosols might be generated.
- See the product Material Safety Data Sheet for more information.

Reference

Alsever, J.B., and Ainslie, R., *N.Y. State J. Med.*, 41, 126 (1941).

Product Use: For research use only.