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## Modified Alsever's Solution + ATP

**Intended Use:** Modified Alsever's Solution + ATP is intended for use in suspending and preserving red blood cells that can be used for *in vitro* immunohematology testing. Red blood cells supported in Modified Alsever's +ATP will be preserved for up to 4 weeks when stored at refrigerated temperatures.

### Summary and Explanation:

Extended storage of red cells for future testing is often required. To preserve the integrity of the red cell membrane and antigens, red cells are suspended in a preservative solution.

### Principle of the Procedure:

Modified Alsever's Solution + ATP is used as a suspension medium for red cells. It enables the preparation and storage of red blood cells at refrigerated temperatures.

### Reagent Description:

This Modified Alsever's Solution + ATP is provided ready to use and contains Gentamicin Sulfate (0.05g/L), Neomycin sulfate (0.1g/L) as preservatives. It is stable until the expiry date stated on the product label.

### Precautions:

1. The reagent is designed for use by operators trained in serological techniques.
2. This reagent is for *in vitro* diagnostic use only.
3. Do not use it if turbid.

### Storage:

Store Modified Alsever's Solution + ATP at 2-8°C. Do not freeze or expose it to elevated temperatures.

### Procedures:

No specific test procedures are recommended. Users are advised to carefully confirm reagent suitability and validate their own procedures and storage temperatures for red cells supported in this solution before use of this reagent. The reagent red cell manufacturer's recommendations for cell concentration should be followed.

### Limitations:

1. Stability of the antigens is of paramount importance and will only be achieved if storage conditions are optimal.
2. It is essential that saline containing sodium azide is NOT used to wash the red cells. Sodium azide, even in extremely small volumes will dramatically shorten the life of the red cells.

### Specific Performance Characteristics:

Each lot is tested prior to release to ensure it meets quality requirements.

For Technical Support, contact Hemo bioscience at 1-866-332 2835.

### Bibliography:

1. Alsever JB, Ainslie JR. A new method for the preparations of dilute plasma and the operation of a complete transfusion service. NY State J Med 1941;41:126