

LOW IONIC STRENGTH SOLUTION (LISS).

Product Code 04-016 (1L) 04-017 (2.5L) 04-018 (12L)

INTRODUCTION.

A substantial reduction in the incubation time for antigen/antibody mixtures can be achieved when the red cells are suspended in a LISS medium. It is also recognised that most antibodies will show an increase in test sensitivity when LISS is incorporated into the test medium.

REAGENT.

Inverclyde LISS is provided ready for use and contains sodium azide as a preservative. Biochemical parameters determined at the time of manufacture are printed on the label.

A COSHH information sheet is available with this product if required.

RECOMMENDED METHOD OF USE.

Red cells to be suspended in LISS should be washed twice in Normal Ionic Strength Saline (NISS) or Phosphate Buffered Saline (PBS) pH 7.0 and once in LISS. The red cells should finally be re-suspended to the required strength in LISS.

It is of paramount importance that the red cell suspension and the serum are added in equal volumes and that the mixture is thoroughly mixed before incubating.

Incubation time should be 15 minutes at 37°C in a water bath.

NOTABLE POINTS WHEN USING LISS.

1. An accelerated deterioration in the expression of certain red cell antigens (Fy^a, Fy^b, S and s) is associated with the use of LISS when the cells are exposed to the reagent for a significant length of time.

It is therefore recommended that red cells suspended in LISS should be discarded after 24 hours and if required a fresh suspension prepared.

2. Equal volumes of LISS suspended red cells and serum is a major requirement for the success of this technique.

3. The incubation time of 15 minutes noted above is a minimum incubation time where an antiglobulin test is to be performed. This time is recommended where a water bath is in use.

4. Cold antibodies are less likely to adhere to red cells if the solution is kept at 19 - 25°C when in use.

5. It is recommended that a wash bottle be used when dispensing the LISS solution. Pipetting from the stock is not a good practice and is likely to generate a contamination problem.

6. This reagent complies with the recommendations contained in the second edition of 'Guidelines for the Blood Transfusion Service in the United Kingdom'.

7. Do not use if turbid.

STORAGE The reagent should be stored at room temperature but below 25°C.

INVERCLYDE BIOLOGICALS

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