LISS (LOW IONIC STRENGTH SOLUTION)

CAT NO	DESCRIPTION	PACK SIZE
BGRLS10	LISS (LOW IONINC STRENGTH SOLUTION	10x10ml

Intended Use:

Reducing the ionic strength of the antibody : antigen reaction mixture by suspending red cells I LISS permits a substantial reduction in incubation time and an increase in test sensitivity. These advantages of LISS are entirely dependent on correct preparation and use. Therefore, laboratories that use LISS techniques must take particular care with staff training.

Appearance, Preparation and Stability:

The LISS solution is provided ready to use and is supplied at an optimal dilution, for use with all recommended techniques without the need for further dilution or addition. The shelf life of LISS after opening of the primary container is influenced by the method by which it is used. LISS which is transferred to a second container, may become contaminated more quickly and should be given a shelf life of 1 weeks after dispensing from the primary container, The reagent contains 0.1 (w/v) sodium azide.
LISS should be stored at +16-25^{o}C. If it has been stored at temperature less than +16oC, then, it has to be brought into 16-25^{o}C and any deposit present should be re-dissolved by shaking the container. Do not use the reagent if it is turbid or if particles that do not readily re-dissolve are present.

Test Procedure:

General Information:

LISS techniques offer increased test sensitivity with decreased incubation time. However the benefits of LISS are entirely dependent on the correct performance of techniques. For optimum sensitivity the LISS indirect antiglobulin technique requires a minimum incubation time of 15 minutes. Red cells should be washed at least twice in normal saline before they are finally washed and re-suspended to 1.5-2.0% in LISS. This avoids the non-specific uptake of autologous complement by the red cells which can lead to unwanted positive reactions in anti-human globulin tests.
Direct agglutination tests at or below room temperature detects cold antibodies which are nearly always of nonclinical significance and consequently such techniques are not recommended for routine antibody screening or compatibility testing. Unwanted positive reactions are less likely to be encountered if the temperature of the red cell suspension, LISS or serum is in the range of 16-25^{o}C immediately before use.
Red cells suspended in LISS should be clearly distinguished from red cells at normal ionic strength and should be discarded within 24 hours of preparation.

Notes:

- Driblocks and water-baths promote better heat transfer and are recommended for 37^{o}C tests, particularly where the incubation time is 30 minutes or less.
- Glass tubes are recommended for all serological test procedures and auto controls should be incorporated where appropriate.
- Suspension of red cells in LISS is associated with an accelerated deterioration in the expression of Fya; Fyb; S and s antigens. Consequently, red cells suspended in LISS should be discarded within 24 hours of their preparation.
- LISS is readily contaminated.
- For in vitro use only.

REF	Catalog number		Temperature limitation
	Consult instructions for use	LOT	Batch code
IVD	*In vitro* diagnostic medical device		Use by
	Manufacturer		