ODAK Blood Grouping System

**OBG LISS Diluent**

**REF No:** OBGLISS100, OBGLISS500

---

**INTENDED USE**

Low-ionic strength solutions (LISS) increase the interaction of antigen and antibody in immune hematologic reactions.

**INTRODUCTION**

The solutions reduced of ionic strength are used to accelerate the interaction of antigen and antibody. That solution of saline containing less Na and Cl ions than normal isotonic salt solutions interfere less in the reaction between an antigen and antibody of complementary electrostatic charge. These solutions are known in immunohematology as Low Ionic Strength Saline (LISS). LISS solutions is used for preparing 5% red cell suspensions for blood grouping as well as 0.8% red cell suspensions for cross matching, antibody screening, direct anti-human globulin test.

**REAGENT**

**OBG LISS Diluent:** 100 and 500 ml bottles Ready to use. Contains sodium azide as preservative.

**MATERIAL REQUIRED BUT NOT PROVIDED**

- Pipettes.
- Disposable pipette tips.
- Test tubes.
- Dispenser

**STORAGE CONDITIONS AND STABILITY**

The reagent should be stored at 2°C - 8°C. The reagent is stable until the expiry date stated on the product label.

Once opened the shelf life of the reagent vial is as described on the reagent vial label if stored 2-8°C. Prolonged storage at temperatures outside may result in accelerated loss of reagent reactivity.

**PRECAUTIONS AND WARNINGS**

- This reagent kit is for in vitro diagnosis only.
- Do not use if turbid.
- Do not dilute
- This reagent kit is for professional use only.
- The reagent contains sodium azide 0.1% as preservative.
- Avoid contact with skin and mucosa.
- Do not use damaged or leaking reagents.
- Do not use the reagents past the expiration date.
- Do not use the reagents if a precipitate is present.
- All kit components and specimens should be regarded as potential hazards to health. It should be used and discarded according to your own laboratory’s safety procedures.

**SAMPLE COLLECTION**

Fresh red blood cells are preferred for testing. Use the red blood cells collected with anticoagulants for determination of the antigens of the ABO/Rh system. If necessary, samples stored at 2-8 °C can be used up to 48 hours. Red blood cells collected in ACD, CPD, SAGM and PAGGSM can also be used until the expiry date indicated on the label of the bag at 2-8 °C.

Fibrin residues may interfere with the reaction pattern.

**PREPARATION OF BLOOD**

Do not use haemolysed, cloudy or contaminated samples or those containing clots.

- **5 % red blood cell suspension :**
  1. Bring OBG LISS Diluent to reach room temperature before use
  2. Dispense 0.5 mL of OBG LISS Diluent into a clean tube.
  3. Add 50 μL of whole blood or 25 μL of packed cells to the diluent and mix gently.

- **0.8 % red blood cell suspension :**
  1. Bring OBG LISS Diluent to reach room temperature before use
  2. Dispense 1 mL of OBG LISS Diluent into a clean tube.
  3. Add 20 μL of whole blood or 10 μL of packed cells to the diluent and mix gently.

**LIMITATIONS**

- Stored blood may give weaker reactions than fresh blood.
- Bacterial or other contamination of materials used can cause false positive or false negative results.
- Hemolysed samples may interfere the final interpretation of results.

**PERFORMANCE CHARACTERISTICS**

OBG LISS Diluent was evaluated with 540 samples (from donors, patients). The evaluation demonstrated 100% specificity and sensitivity of the reagent versus the expected results with common known ABO, Rh phenotypes, Cross match, DAT and Autocontrol.

**Label symbols**

- Batch code
- Expiry date
- Storage temperature
- Consult instructions for use
- In vitro diagnostic medical device
- Product code
- Manufacturer

**BIBLIOGRAPHY**

1-Marion E. Reid Christine Lomas-Francis THE BLOOD GROUP ANTIGEN FactsBook 2004, Elsevier Ltd.
3-Harvey G. Klein MD, David J. Anstee Mollison’s Blood Transfusion in Clinical Medicine 11TH EDITION Blackwell Publishing Ltd
4-Michael F. Murphy, , Derwood H. Pampilhon , Practical Transfusion Medicine Third Edition 2009 Blackwell Publishing Ltd
6- Christopher D. Hillier ... BLOOD BANKING AND TRANSFUSION MEDICINE, Second Edition, Churchill Livingstone 2007

**Products :** OBG LISS Diluent

- 100 ml REF OBGLISS100
- 500 ml REF OBGLISS500

**Manufacturer:**

**ISLAB Tıbbi Malzeme Sağlık Hiz. San.ve Tic. Ltd. Sti. Tel :** 0216 5511143 / 0532 433 78 18 Faks: 0216 5511143
**Egitim Mah Kasri Ali Cad No:52/A Kadıköy / İstanbu**
**Web: islab.com.tr Email: info@islab.com.tr**

**ODAK Blood Grouping Gel System**

**OBG LISS Diluent**

Rev:01 05.11.2012