

ANTI-HUMAN GLOBULIN SERUM (COOMBS)

REF: 819 001 (1 X 10 ml)
REF: 819 002 (10 X 10 ml)

Intended Use

Spectrum Diagnostics Anti-Human Globulin Serum is intended for the in-vitro detection of antibody coating on human erythrocytes

Background

Antibodies immunoglobulins may become attached to human red cells either "in-vivo" or "in-vitro"
"In-vivo" coating can occur if the body produces an auto-antibody against a self antigen located on its own red cells.
"In-vitro" coating can occur during blood grouping tests compatibility testing prior to transfusion or when testing to detect and investigate atypical antibodies

Recommended Procedure

Indirect Test - Tile method

- 1- Prepare 2 - 4 % suspension of red cells to be used in the test in physiological saline (85% Nacl pH 7.0)
- 2- Place in a small Test tube:
Two volumes of serum to be tested
1 volume of 3% red cell suspension
1 volume of 22% or 30 % spectrum Bovine albumin
- 3- Mix well and incubate 37°C for 30 minutes
- 4- Wash the cells 4 times in large volumes in physiological saline
Decant completely the last wash
- 5- Re-suspend the cell to a 3% suspension in physiological saline
- 6- Mix on a clean tile or slide:
1 volume of Spectrum anti-human globulin reagent
1 volume of 3 % suspension washed cells
- 7- Allow to stand at room temperature for 5 minutes
- 8-Rock the tile gently and examine for agglutination over a light source

Indirect Test - Tube method

- 1- Prepare 2 -4 % suspension of the cells to be used in the test in physiological saline (0.85% Nacl pH 7.0)
- 2- Place in small Test tube:
Two volumes of serum to be tested
1 volume of 3% red cell suspension
1 volume of 22% or 30 % spectrum Bovine albumin
- 3- Mix well and incubate at 37 °C for 30 minutes
- 4- Wash the cells 4 times in large volumes of physiological saline
Decant completely the last wash
- 5- Add 2 volumes of Spectrum anti-human globulin reagent
- 6- Mix well and centrifuge at 1000 rpm (100 RDF) for 1 minute
- 7- Agitate the tube gently and examine macroscopically for agglutination. Negatives can be checked microscopically

SYMBOLS IN PRODUCT LABELLING

	For in-vitro diagnostic use		Use by/Expiration Date
	Batch Code/Lot number		CAUTION. Consult instructions for use
	Catalogue Number		Manufactured by
	Consult instructions for use Temperature Limitation		

Direct Test - Tile method

- 1- Wash the red cells to be tested in large volumes of physiological saline. Decant completely the last wash
- 2- Prepare a 3% suspension of washed red cells in physiological saline
- 3- Mix on a clean tile or slide:
1 drop of Spectrum anti-human globulin reagent
1 drop of 3 % red cell suspension
- 4- Allow to stand at room temperature for 5 minutes
- 5- Rock the tile gently and examine for agglutination over a light source

Indirect Test - Tube method

- 1- Wash the red cells 4 times in large volumes in physiological saline. Decant completely the last wash
- 2- Re-suspend the cells to 5% suspension in physiological saline
- 3- Place in a small Test tube:
2 volumes of Spectrum anti-human globulin reagent
1 volume of 3% suspension test red cells
- 4- Mix well and centrifuge at 1000 rpm (100 RDF) for 1 minute
- 5- Agitate the tube gently and examine macroscopically for agglutination. Negatives can be checked microscopically

Notes

- 1- Appropriate positive and negative controls must be used with each test or batch of test
- 2- Spectrum anti-human globulin reagent is suitable for use with automated Coombs washing equipment
- 3- This reagent is prepared by blending the serum from rabbits which have been immunized with different human globulin preparations
- 4- Preservative :0.1% sodium azide
store at 2 - 8 °C

