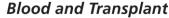
# Instructions for use – IgG Coated Cells





Effective: 04/12/12



Reagent red cells
for use in the control of the anti-human globulin technique
for in vitro diagnostic use only
Product Code: PR092
Reagents, NHSBT Liverpool,
14 Estuary Banks, Liverpool L24 8RB

Tel 0151 268 7157

#### Intended use

These reagent red blood cells are intended to be used for the control of negative anti-human globulin (AHG) tests and can also be used to monitor the washing efficiency of cell washing centrifuges.

#### Principles of the examination method

Plasma/serum samples are incubated with reagent red cells to determine the presence of agglutinins by direct and/or indirect methods

#### Components

These cells are supplied as a 4.0±0.2% suspension to be used directly from the vial.

These reagent red cells, prepared from non-remunerated blood donors, are leucodepleted, washed and suspended in a preservative solution — Modified Alsevers solution, which has been specially formulated to preserve red cell integrity and antigenicity, containing trisodium citrate 8g/L, D-glucose 20/0g/L, citric acid monohydrate 0.5g/L, sodium chloride 4.2g/L, inosine 0.938g/L, ATP 0.4g/L, chloramphenicol 0.34g/L and neomycin sulphate 0.1g/L.

## **Reagent Preparation**

Mix before use

#### Storage and shelf life after first opening

Store at 20-80C

Do not freeze

Do not use beyond the notified expiry date

#### Warnings and precautions

For professional use only

The recommended conditions of storage and use must be rigidly applied.

Do not use if red cells appear obviously discoloured or haemolysed.

The donations used in this product have been tested at source and found negative for the mandatory microbiological tests required by the Guidelines for UK BTS at the time of donation. No known test methods can offer assurances that products derived from human blood will not transmit infectious diseases. Appropriate care should be taken in the use and disposal of this product.

Chloramphenicol is classed as a carcinogen, neomycin sulphate as an irritant.

#### Control of negative antiglobulin tests Examination procedure

It is important to ensure that the anti-human globulin test worked correctly as a negative result could incorrectly be assigned where in fact the test mechanism failed

 Add 1 drop of IgG coated cells to each negative antiglobulin test

Centrifuge at 1000rpm for 1 minute or for an equivalent speed and time

3. Read tests macroscopically

#### Interpretation of results

The IgG coated cells should give a macroscopic reaction with negative antiglobulin tests, when used as recommended

A macroscopic reaction (grade 2-3) indicates the anti human globulin has not been neutralised

All tests with IgG coated cells giving a negative of equivocal result must be considered invalid and the AHG test repeated.

#### Monitoring efficiency of cell-washing centrifuges Examination procedure

It is important to ensure that the anti human globulin test is working correctly as a negative result could incorrectly be assigned where in fact the washing procedure has failed

- 1 Use one tube for each place in the centrifuge head and add to each 1 volume of the IgG coated cells plus 2 volumes of AB serum
- 2 Run the centrifuge through its normal cycle of 3 or 4 washes
- 3 Add 2 volumes of AHG reagent (or as recommended in the package insert) mix and centrifuge as per machine instructions
- 4 Read and record results

#### Interpretation of results

All tubes should show equal strength 2+ reactions or greater. Failure to do so indicates that the centrifuge is not washing corectly and should be taken out of service until the problem is corrected.

#### Performance characteristics

In both procedures an unequivocal 2-3 grade viewed macroscopically should be regarded as proof that test mechanism was working or that the centrifuge washing cycle was adequate for AHG test to work effectively.

#### Limitations of the examination procedure

If tests set up to control the batch of tests fail to give required results then all tests must be repeated.

### Literature references

These reagents comply with:

The requirements of Directive 98/79/EC on in vitro diagnostic medical devices

Guidelines for the Blood Transfusion Services in the UK (current version)