

## Instruction for Use - Weak Anti-K Control



Reagent for use in controlling  
antiglobulin tests  
for *in vitro* diagnostic use only  
Product Code: PN043  
NHSBT Reagents,  
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### Intended use

This reagent has been formulated to contain weak anti-K suitable for the control of antiglobulin tests.

This reagent can be used to assure the effectiveness of each batch of laboratory tests designed to detect clinically significant red cell antibodies.

This reagent is not suitable for use as an anti-K grouping reagent.

### Principles of the examination method

Reagent containing a weak red cell antibody is incubated with red blood cells known to exhibit the appropriate antigen in a test system to show that the system at that time is capable of detecting an antibody/antigen reaction when testing unknown samples.

### Components

This reagent is provided as weak anti-K control.

This reagent has been prepared using a diluent containing 30g/L bovine serum albumin from a BSE free source and sodium azide as a bacteriostat at less than 0.1%.

### Reagent preparation

Mix before use.

Use reagent as supplied, without addition or dilution.

### Storage and shelf life after opening

Store at 2-8°C.

Do not freeze.

Do not use beyond the notified expiry date.

Protect from contamination.

### Warnings and precautions

For professional use only.

The reagent has not been absorbed to remove ABO alloagglutinins.

The recommended conditions of storage and use must be rigidly applied as storage at a temperature significantly above 4°C may result in a reduction in its efficacy as a control reagent.

The reagent should not be used if turbid, or if a precipitate, gel or particles are present.

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.

### Examination procedure

This product can be used as a control reagent in antiglobulin tube and column techniques.

### Interpretation of results

The presence of agglutination indicates a positive result. Weak anti-K control must, when used undiluted, give grade 2-4 reaction results with red cells with homozygous antigen expression, otherwise results obtained in that batch of tests are invalid.

### Performance characteristics

The absence of other blood group antibodies has been assured using a panel of red cells which bear the following antigens: C, D, E, c, e, Le<sup>a</sup>, Le<sup>b</sup>, K, Kp<sup>a</sup>, P<sub>1</sub>, C<sup>w</sup>, M, N, S, s, Lu<sup>a</sup>, Jk<sup>a</sup>, Jk<sup>b</sup>, Fy<sup>a</sup>, Fy<sup>b</sup>.

Negative reactions with this panel also exclude the presence of antibodies to antigens having a prevalence of greater than 99%.

Antibodies to low incidence blood group antigens may occur as contaminants and may, on rare occasions, give rise to false positive results.

### Limitations of the examination procedure

Heterozygous K positive cells may give weaker or occasionally negative reactions against weak anti-K reagents.

Failure to obtain a positive reaction against homozygous K positive cells must be investigated and that batch of tests must be repeated.

Suitability for use in other techniques must be validated by user.

The precise conditions for red cell suspension, ratio, incubation and reading must be identical to those of the batch of tests being controlled.

### Literature references

This reagent complies with:

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

The recommendations contained in current version of the Guidelines for the Blood Transfusion Services in the UK

BSH Guidelines for compatibility procedures in blood transfusion laboratories-current version.



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