



ANTI-A, ANTI-B & ANTI-AB

REAGENTS:

Anti-A, Anti-B, Anti-AB are ready to use reagents. Prepared from the supernatant of IgM type of Murine hybridoma. These Antibodies of the immunoglobulin class IgM are a mixture of several Antibodies of same specificity, but having capacity of recognizing different options of the human Red Blood Cell antigens and with the different reactivity and specificity:

SPECIFICITY: ANTI-A: 100% to A₁, A₂, A₁B and A₂B antigens.

ANTI-B: 100% to A₁B, A₂B & B antigens. Truly negative reacting with acquired B. Anti-T. Tn & Tk activity absent.

ANTI-AB: 100% A₁, A₁B, A₂, A₂B and B antigens.

PRINCIPLE:

Human red blood cells possessing A and B will agglutinate in the presence antibody directed towards the antigen.

Agglutination of red blood cells with Anti A, Anti B, Anti AB reagents are positive test results and indicates the presence of the corresponding antigen.

Absence of agglutination of red blood cells with Anti A, Anti B and Anti AB reagents are negative test results and indicates the absence of the corresponding antigen.

STORAGE & STABILITY:

Store the reagent at 2^o - 8^o C. DO NOT FREEZE.

The shelf life of the reagent is as per the expiry date mentioned on the reagent vial label.

SPECIAL NOTES:

Extreme turbidity may indicate microbial contamination or denaturation of protein due to thermal damage. Such reagents should be discarded.

In Vitro diagnostic reagent for laboratory and professional use only. Not for medical use.

Reagents are not from human source, hence contamination due to HbsAg and HIV is practically excluded.

SAMPLE COLLECTION:

No special preparation of the patient is required prior to sample collection by approved techniques. Samples should be stored at 2^o - 8^o C. If not tested immediately, do not use haemolysed samples.

TEST PROCEDURE: Bring all reagents to Room Temperature before testing.
SLIDE TEST:
1. Place a drop of reagent Anti-A, Anti-B or anti AB on a clean glass slide.
2. To each of the reagent drop, add one small drop of whole blood.
3. Mix well with a mixing stick uniformly over an area of approximately 2.5 cm ² .
4. Rock the slide gently, back and forth.

Observe for agglutination macroscopically within two minutes.
TUBE TEST
1. Prepare a 5% suspension of the red cells to be tested in isotonic saline.
2. Place one drop of Anti-A, Anti-B, Anti-AB into correspondingly labelled test tubes.
3. Pipette into each of the test tubes, one drop of the test red cell suspension and mix well.
4. Centrifuge for 1 minute at 1000 rpm (125g) or 20 seconds at 3400 rpm (1000g) or incubate at Room Temperature for 20-30 minutes.
5. Gently dislodge the cell button, observing for agglutination macroscopically.

INTERPRETATION OF RESULTS:

Slide and tube tests.

Agglutination is a positive test result and indicates the presence of A and/or B Antigen.

Do not interpret peripheral drying or fibrin strands as agglutination.

No agglutination is a negative test result and indicates the absence of A and/or B Antigen/AB Antigen.

REMARKS:

1. Reagents do not show a reaction with crypt antigens (T.Tn, Tk activated cells)
Anti B has truly negative reaction with acquired B characteristics.
2. In tube test procedure. It is recommended that tubes with negative reactions should be centrifuged and results read again after 5 minutes so that weak antigens are not overlooked.
3. As under centrifugation could lead to erroneous results, it is recommended that each should laboratory calibrate its own equipments and determine the time required for achieving the desired results.

REFERENCES:

1. Kohler C. & Milstein C. (1975). Continuous cultures of fused cells secreting antibody of predefined specificity Nature, 256. 495-497.
2. Landsteiner K. Uber agglutination sercheinungen normales menschlichen blutes. Wein Klin Wschr 1901; 14; 1132-4.
3. Messeter L. Brodin T. Chester M.A. Low B, Lundbiard. A (1984).

For in vitro diagnostic use only, not for medical use

Manufacturing For:

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