

ANTI-A, ANTI-B, ANTI-A,B

MONOCLONAL BLOOD GROUPING ANTIBODIES FOR SLIDE AND TUBE TESTS

SUMMARY

Monoclonal antibodies are derived from hybridoma cell lines, created by fusing mouse antibody producing B lymphocytes with mouse myeloma cells. Each hybridoma cell line produces homogenous antibodies of only one immunoglobulin class, which are identical in their chemical structure and immunological activity.

Human red blood cell antigens can be divided into four groups A, B, AB and O depending on the presence or absence of the corresponding antigens on the red blood cells.

Approximately 41% of the Caucasian population have the A Antigen, 9% have the B Antigen, 4% have both A and B antigens, while the remaining have neither the A nor the B antigen.

PRESENTATION

	ERYCLONE® Anti - A				ERYCLONE® Anti - B				ERYCLONE® Anti - A,B			
REF	101620010	101620610	101621010	101621000	101630010	101630610	101631010	101631000	101640010	101640610	101641010	101641000
Pack	10 ml	6 x 10 ml	10 x 10 ml	1000 ml	10 ml	6 x 10 ml	10 x 10 ml	1000 ml	10 ml	6 x 10 ml	10 x 10 ml	1000 ml

REAGENTS

ERYCLONE® Anti-A (Clone 11H5), **ERYCLONE®** Anti-B (Clone 6F9), and **ERYCLONE®** Anti-A,B (Clone 11H5+6F9+ES-15) are ready to use solutions of the respective specific Agglutinating Sera of the immunoglobulin class IgM prepared from the corresponding supernatants of mouse hybridoma cell cultures. Each batch of reagent undergoes rigorous quality control at various stages of manufacture for its specificity, avidity and performance.

REAGENT STORAGE AND STABILITY

- 1. Store the reagent at 2-8°C. DO NOT FREEZE.
- 2. The shelf life of the reagent is as per the expiry date mentioned on the reagent vial label. Once opened the shelf life of the reagent vial is as described on the reagent vial label provided it is not contaminated.

PRINCIPLE

Human red blood cells possessing A and/or B antigen will agglutinate in the presence of Agglutinating Sera directed towards the antigen. Agglutination of red blood cells with **ERYCLONE®** Anti-A, **ERYCLONE®** Anti-B, **ERYCLONE®** Anti-A,B reagents is a positive test result and indicates the presence of the corresponding antigen.

Absence of agglutination of red blood cells with ERYCLONE® Anti-A, ERYCLONE® Anti-B, and ERYCLONE® Anti-A,B reagents is a negative test result and indicates the absence of the corresponding antigen.

PRECAUTIONS

- 1. In vitro diagnostic reagent for laboratory and professional use only. To be used by a qualified personnel. Not for medicinal use.
- 2. The reagent contains sodium azide 0.1% as preservative. Avoid contact with skin and mucosa. MSDS available on request.
- Extreme turbidity may indicate microbial contamination or denaturation of protein due to thermal damage. Such reagents should be discarded.
- 4. Reagents are not from human source, hence contamination due to HBsAg, HIV and HCV is practically excluded.
- 5. It is necessary to use the dropper provided in the reagent vial to dispense a reagent drop.
- 6. It is advisable to wear gloves and safety spectacles and handle test specimens of human origin with caution.
- 7. Do not use damaged or leaking reagents.
- 8. Special protective measures, conditions for disposal and disinfection should be implemented in accordance with local regulations.

SAMPLE COLLECTION AND PREPARATION

No special preparation of the patient is required prior to sample collection by approved techniques. For optimal results, freshly collected venous whole blood sample should be used. Anticoagulants like EDTA, CPD-Aand Citrate can be used.

ADDITIONAL MATERIAL REQUIRED FOR SLIDE AND TUBE TESTS

Slides (60 x 85 mm), Test tubes (12 x 75 mm), Micropipettes, Isotonic saline (0.9% NaCl), Centrifuge, Timer, Mixing sticks, test tube rack.

TEST PROCEDURE

Bring reagents and samples to room temperature before testing.

Slide Test

- Place one drop of ERYCLONE® Anti-A, ERYCLONE® Anti-B, ERYCLONE® Anti-A,B reagents using the reagent vial dropper separately on a clean slide.
- 2. To each reagent drop, add 50µl of whole blood.
- Mix well with a mixing stick uniformly over an area of approximately 2.5 cm².
- 4. Rock the slide gently, back and forth.
- 5. Observe for agglutination macroscopically at two minutes.

Tube tes

Prepare a 2-3% suspension of the red cells to be tested in isotonic saline.

- Place one drop of ERYCLONE® Anti-A, ERYCLONE® Anti-B, ERYCLONE® Anti-A, B reagents using the reagent vial dropper into corresponding labeled test tubes.
- Pipette into each of the test tubes, 50µl of the test red cell suspension and mix well.
- Centrifuge for 20 seconds at 1000 g.
- Gently suspend 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.

- Results of forward grouping obtained by using ERYCLONE® Anti-A, ERYCLONE® Anti-B and ERYCLONE® Anti-A,B reagents should always be reconfirmed by performing reverse grouping with known red cells. If there is discordance, do not report the result and pursue blood identification in compliance with current recommendations and protocols or forward the sample to an expert laboratory.
- It is strongly recommended that red cells with known ABO characteristics should be periodically run, preferably on a daily basis to validate the reagent performance.

REMARKS

- (a) ERYCLONE® Anti-A and Anti-A,B reagent reacts with Tn. Tn positive person must be excluded from donating blood as the occurrence of Tn is considered to be a symptom of a preleukaemic state and the red blood cells are polyagglutinable.
 - (b) **ERYCLONE**® Anti-B is truly negative reacting with acquired B characteristics.
- In the tube test procedure, it is recommended that tubes with negative reactions should be centrifuged once again (for the same centrifugation speed and time) and results read so that weak antigens are not overlooked.
- As undercentrifugation or overcentrifugation could lead to erroneous results, it is recommended that each laboratory calibrate its own equipment and determine the time required for achieving the desired results.
- After usage the reagents should be immediately recapped and replaced to 2-8°C storage.
- In certain cases (transfusion recipients, certain weak phenotypes A or B (A_3 , B_3 ...), certain hemopathological modifications, mosaics or chimeras, etc.), an image of a double population may be observed.

PERFORMANCE CHARACTERISTICS

The Performance of ERYCLONE® Anti-A, ERYCLONE® Anti-B and ERYCLONE® Anti-A,B complies with the common technical

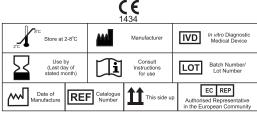
specifications of In-vitro diagnostic medical devices under the recommended methods.

The performance of ERYCLONE® Anti-A, ERYCLONE® Anti-B and ERYCLONE® Anti-A,B was evaluated on over 3275 samples (from donors, clinical and neonates) drawn in the recommended anticoagulants. The evaluation demonstrated 100% specificity and sensitivity of each reagent versus the expected results with common known phenotypes A_1, A_2, A_1B, A_2B, B and O.

This product is designed to perform as described on the label and the package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

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- Data on file: Tulip Diagnostics (P) Ltd.



Manufactured by:



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EC REP

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