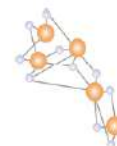


Ana-Chek® ANTI – A, ANTI – B, ANTI - AB

METHOD – IMMUNOAGGLUTINATION

PRODUCT CODE – AB11/AB13/AB14/AB15/AB17

INSTRUCTIONS FOR USE



ANAMOL
THE ORIGINAL MAKERS

INTENDED USE: Test for qualitative detection of ABO antigens on human RBCs by immunoagglutination method.

INTRODUCTION

The mouse monoclonal IgM Anti-A, Anti-B and Anti-AB antibodies are produced “in-vitro” as culture supernatant of selected hybridoma, obtained by the fusion of mouse antibody producing B-lymphocytes with mouse myeloma cells. Monoclonal sera Anti-A, Anti-B and Anti-AB are specific IgM immunoglobulin which are directed against the human red blood cell antigens A, B and AB respectively. Monoclonal sera immunoglobulins are produced from individual cell line hence they are identical in their chemical structure and biological activity.

METHOD PRINCIPLE

Human red cells possessing A and/or B blood group antigen will be agglutinated by monoclonal sera directed towards the respective antigen (s), indicating positive test. Absence of agglutination cells with Anti-A, Anti-B and Anti-AB reagents is a negative test results and indicates the absence of the corresponding antigen.

REAGENTS

Anti – A - 10 ml.

Anti – B - 10 ml.

Anti – AB - 10 ml.

WORKING REAGENT PREPARATION AND STABILITY

1. Store the reagent at 2-8 °C. **DO NOT FREEZE.**
2. Unopened vial of Monoclonal Sera is stable at 2-8 °C till the expiry date mentioned in the individual label. Preferably use the content of opened vial within a month.

SAMPLE COLLECTION AND STORAGE

Whole blood with anticoagulant. In-case of delay in testing store sample at 2-8 °C.

PRECAUTIONS

1. Although monoclonal sera contain preservation care should be taken to avoid microbial contamination.
2. Do not interchange caps of vials and avoid use of turbid reagents.
3. Bring reagents and samples to room temperature before use.
4. Suppressed or diminished expression of certain blood group antigens may conversely give rise to false negative reactions.
5. Do not interpret peripheral drying or fibrin strands as agglutination.
6. All the samples should be considered as if potentially infectious and handle with due care at all times during testing and disposal.

NOTE

Monoclonal sera are not from human source hence contamination due to HBsAg (Hepatitis B) and HIV I + II antibodies is practically excluded.

TITRE

1:512 Macroscopically & Average avidity < 10 seconds with whole blood.

PROCEDURE

A. SLIDE TEST

1. Place one drop of monoclonal sera Anti-A, Anti-B and Anti-AB on clean and dry slide.
2. To each drop of reagent, add one drop of whole blood mix well with an applicator stick.
3. Rock the slide gently back and forth.
4. Observe for agglutination macroscopically within 2 minutes.

B. TUBE TEST

1. Prepare 5% suspension of the RBCs to be tested in isotonic saline.
2. Place one drop of monoclonal sera Anti-A, Anti-B and Anti-AB into correspondingly labelled tubes.
3. Add one drop of cell suspension to each tube and mix well.
4. Centrifuge for 1 - 2 minutes at 1000 RPM or incubate at Room temperature for 20 - 30 minutes.
5. Gently dislodge cell button and observe for agglutination.

INTERPRETATION OF RESULTS

Agglutination indicates the presence of A and/or B Antigen. No Agglutination is a negative test result and indicates the absence of A and/or B antigen.

AGGLUTINATION WITH MONOCLONAL SERA

Anti - A	Anti - B	Anti - AB	Blood Group
+	-	+	A
-	+	+	B
+	+	+	AB

BIBLIOGRAPHY

1. Landsteiner Kizpur K. Lur Kenntnis der fermentative Lytischen & Agglutinierenden Wirkungen des Blustserum and Derlymphbezbl Bakt 27.357.1900
2. Kohler G. Milstein Nature 256 495 (1975)
3. Technical method & procedure of the American Association of Blood Bank VI Ed. 1947.

Symbol	Explanation	Symbol	Explanation
	Manufactured By		In Vitro Diagnostic Use
	Lot Number		Read Instructions Before Use
	Catalogue Number		Storage Temperature
	Manufacturing Date		Number of Tests / Volume
	Expiry Date		Do Not Reuse
	Protect from Sunlight		Keep Dry

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ISO 9001: 2015

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