

**INTENDED USE**

The TRUEchemie Anti-Streptolysin O (ASO) Test kit (Slide Agglutination) is used for the qualitative and semi-quantitative determination of Anti Streptolysin-O in serum.

**INTRODUCTION**

The group of beta-hemolytic Streptococci produce various exotoxins such as Streptolysin-O & Streptolysin-S which can act as antigens. The affected individuals produce specific antibodies-Antistreptolysin – O (ASO). Detection of ASO is very useful in the diagnosis of streptococcal infections. The elevated ASO titre may be associated with acute rheumatic fever and glomerulonephritis. An elevated ASO titre of more than 200 IU/ml indicates an acute streptococcal infection. Testing of successive serum sample for an interval of 10-12 days is diagnostically more important than a single sample.

**PRINCIPLE**

The latex Reagent is coated with Streptolysin-O. The specimen containing ASO, on mixing with Latex Reagent agglutinates, showing the positive test result. If ASO is absent there will be no agglutination, which is a negative test result.

**PACK SIZE**

Kit Size	25 T	50 T
Cat. No.	ADX801	ADX802
<b>Kit Contents</b>		
1) ASO Latex	1 x 1 ml	1 x 2 ml
2) ASO Positive Control	1 x 0.250 ml	1 x 0.250 ml
3) ASO Negative Control	1 x 0.250 ml	1 x 0.250 ml
<b>Accessories</b>		
Reusable Plastic Slides		
Disposable Plastic Droppers		
Disposable Plastic Sticks		
Rubber Teat		

**REAGENT PREPARATION**

Ready to use reagents.

**WARNINGS AND PRECAUTIONS**

- Bring all the reagents and samples to Room temperature before use.
- Do not freeze the Latex Reagent.
- Do not use hemolysed or turbid specimen. The use of plasma instead of serum could lead to erroneous results. Drying of the mixture at the periphery of the circle could lead to erroneous results.
- The ASO Latex Reagent should be shaken well prior to use, to ensure a homogeneous suspension of latex.
- The source material used in the manufacturing of Positive & Negative Controls is tested for HBsAg & HIV antibodies and found to be negative. However, for better safety these controls should be handled with proper care.
- Do not read results beyond 2 minutes.**
- While dispensing Latex Reagent, hold the glass dropper vertically to ensure uniform drop size.
- The disposal of the residues has to be done as per local legal regulations.

**REAGENT STORAGE & STABILITY**

The unopened reagents are stable till the expiry date stated on the bottle and kit label when stored at 2-8°C. Do not use reagents over the expiration date.

**SPECIMEN COLLECTION AND STORAGE**

Only serum should be used for testing. In case of a delay in testing, store at 2-8°C

**TEST PROCEDURE**

**(A) QUALITATIVE TEST:**

- Place one drop (40 µl) of each specimen, Positive Control & Negative Control in separate circles using separate plastic droppers for each.
- Add one drop (35 µl) of Latex Reagent in each circle of slide.
- Mix well and spread the reaction mixture in the entire circle.
- Rock the slide gently for 2 minutes and look for agglutination.

**INTERPRETATION OF RESULTS:**

Agglutination with positive control and no agglutination with Negative Control validates test results.

Agglutination within 2 minutes is a positive test and indicates presence of ASO in the test specimen. No agglutination up to 2 minutes is a negative test and indicates absence of ASO in the test specimen.

**DO NOT OBSERVE RESULTS BEYOND 2 MINUTES**

**(B) SEMI QUANTITATIVE TEST:**

- Dilute the specimen serially 1:2, 1:4, 1:8, 1:16, using a normal saline.
- Place one drop of each diluted serum sample using plastic droppers in each circle of slide & proceed further as in Qualitative Test (A).

The highest dilution which shows clear cut agglutination within 2 minutes indicates the ASO titre. The approximate ASO concentration can be obtained by multiplying titre by sensitivity of the test.

ASO in IU/ml = D x S

D= Highest dilution showing clear cut agglutination.

S= Sensitivity of the test is 200 IU/mL.

**QUALITY CONTROLS**

Positive & Negative Controls are used to validate the kit performance.

**INTERFERENCES**

Nonspecific positive reaction may occur if plasma is used or serum is highly lipemic or hemolysed.
















**NOTES**

- Positive & Negative Controls are ready to use & should not be diluted while using in test procedure.
- Improper mixing and drying of reagents may lead to erroneous results.
- Contaminated sera and a longer reaction time beyond 2 minutes may lead to false positive results.
- As with all diagnostic tests, the final diagnosis should be based on correlation of test results with other clinical symptoms & findings.
- For accuracy of results, the procedure has to be followed meticulously.

**REFERENCES**

- Rantz, L.D., Dicaprio J.M. Randall, E., (1952); AM.J.Med.Sci.24
- Kilen, G.C.(1976) ; Manual of Clinical Immunology ASM, 264.
- ISO 15223-1:2021 Medical devices — Symbols to be used with information to be supplied by the manufacturer — Part 1: General requirements

**Index of symbols**

	Consult instructions for use		Catalogue number		Caution
	In vitro diagnostic medical device		Batch code		Non-sterile
	Temperature limit 2-8 °C		Do not re-use		Use-by date
	Manufacturer		Date of manufacture		Keep dry
	Do not use if package is damaged		Contains sufficient for <n> tests		Keep away from sunlight

  
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