

**Packaging**

REF. N° ND101 (with Controls, Slides and Stirrers) 100 Tests

REF. N° ND111 (Latex only) 100 Tests

**Reaction principle**

When a serum containing Streptolysin O Antibody ( $\geq 200$  IU/ml) is mixed with the reagent that contains latex particles coated with O - Streptolysin, an agglutination appears

**Reagents composition, Contents and Safety warnings****1. Latex Suspension** (1x5 ml)

Latex particles coated with Streptolysin O  
Preservatives and stabilizers

**2. Positive Control** \* only in REF. N° ND101 (1x0,5 ml)

Stabilized solution containing enough human ASO titre to give a visible agglutination

**3. Negative Control** only in REF. N° ND101 (1x0,5 ml)

Proteic solution non reactive with the latex

**4. Reaction Slides** only in REF. N° ND101 (8)**5. Plastic Stirrers** only in REF. N° ND101 (50)

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Further information on the risks to health and / or the environment are given in the data sheet

**Storage and Stability of Reagents**

Store the kit at 2 - 8° C

All the components are stable until the stated expiration date stored closed and refrigerated

**Preparation and Stability of working solution**

**Latex Suspension:** liquid and ready to use

**Positive and Negative Control:** liquid and ready to use

Gently mix the Latex to obtain a homogeneous suspension before use.

Keep reagents at Room Temperature before use.

**Samples****Fresh serum**

Serum may be stored at 2 - 8°C for 7 days, for longer storage should be at - 20° C.

**Biological risk**

Each unit of source material used in the preparation of Positive Control has been tested by a licensed method and found non reactive for HbsAg and negative for Antibodies to HCV and HIV1/2. However no known test can offer complete assurance that products derived from human blood will not transmit Hepatitis, AIDS or other infectious diseases. These products, like all material materials of human origin, should be handled as potentially infectious biological material

**Safety Precautions**

For in vitro diagnostic use only

Do not pipette by mouth

Exercise the normal precautions required for handling laboratory reagents

**Procedure****Qualitative**

Reagents	1 <sup>a</sup> reactive area Sample	2 <sup>a</sup> reactive area Positive Control	3 <sup>a</sup> reactive area Negative Control
Sample	1 drop (~50 µl)		
Positive Control		1 drop (~50 µl)	
Negative Control			1 drop (~50 µl)
Latex	1 drop (~50 µl)	1 drop (~50 µl)	1 drop (~50 µl)

Mix and spread with the stirrers to fill the area. Rotate the slide (also with a mixer at 100 rpm) for 2 minutes and observe for any agglutination which should occur

**Results**

Every visible agglutination within 2 minutes indicates positive result

Absence of agglutination indicates negative result

Positive samples should be titrated (see semiquantitative procedure)

**Semiquantitative**

Pipette in the reactive areas:

Reagents	Area 1	Area 2	Area 3	Area 4	Area 5
Saline Solution	50 µl	50 µl	50 µl	50 µl	50 µl
Sample	50 µl	25 µl	50 µl from area 1	50 µl from area 2	50 µl from area 3
discard 50 µl from the last area					
Latex	50 µl	50 µl	50 µl	50 µl	50 µl
Title (IU/ml)	400	600	800	1200	1600

**Results interpretation**

95% of the healthy grown - up people has a titre  $\leq 200$  IU/ml.

A titre > 250 IU/ml tally in the schoolmen.

Even if the titre results very high, the final diagnosis should not be made using a single determination but should be based on more than one result (Repeat the test every 15 days for 4 - 6 weeks)

High ASO titre indicates an ordinary Streptococcal Infection or acute rheumapyra.

In different conditions the titre is very high and persist for a long time

**Performance Characteristics****A. DETECTION LIMIT:**

200 IU/ml

**B. PROZONE EFFECT:**

No prozone effect was detected up to 1500 IU/ml of ASO concentration

**C. ACCURACY:**

Comparison between this method and another commercial, on 118 samples, gave the following results:

	FUTURA SYSTEM		TOTAL
	+	-	
ANOTHER METHOD	48	1	49
	2	67	69
TOTAL	50	68	118

**D. INTERFERENCES**

- Haemoglobin till to  $\leq 1000$  mg/dl does not interfere
- Bilirubin till to  $\leq 20$  mg/dl does not interfere
- Lipids till to  $\leq 1000$  mg/dl do not interfere
- RF till to  $\leq 300$  IU/ml does not interfere

**Notes**

- Do not read beyond 2 minutes, false agglutinations may occur
- The final diagnosis should not be made using a single test but should be based on more than one result and confirmed by clinical data
- Lipaemic or turbid sera should give false positive results

**Quality control**

To distinguish a possible agglutination of suspension one's own it is necessary to be run with each serie of tests the controls, Positive and Negative, supplied with the kit

**Bibliography**

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