

REF

Anti-streptolysin (O) R1: 1x 17.5 mL R3330000050

A-R1100004401

Instruction For Use



Rev.E - 15-11-22

Intended Use

Quantitative determination of Anti-Streptolysin O (ASL) in human serum by turbidimetric immunoassav.

For professional in vitro diagnostic use only.

Diagnostics Implications

The group A β-haemolytic streptococci produces various toxins that can act as antigens, one of these exotoxins is streptolysin O. The affected organism produces specific antibodies against streptolysin O. The concentration of ASL (O) in the patient's serum will enable to establish the degree of infection due to β-haemolytic streptococci.

Method

Measurement of antigen-antibody reaction by the end-point method.

Reagents Provided

The same reagents are supplied in different volume formats depending on the I.S.E. S.r.l. analysers utilised and installed reagent support.

Supplied Volumes

	Product Code		
	R3330000050	A-R1100004401	
Vial size	18 / 18 mL	50 / 20 mL	
Reagent 1	1 x 17.5 mL	1x 50.0 mL	
Reagent 2	1x 3.0 mL	1x 8.5 mL	

Reagent format

Reagent	Format	Code
Reagent 1 – Buffer (liquid)	Ready to Use	129C03
Reagent 2 – Latex (liquid)	Ready to Use	129C02

Reagent Contents

Reagent 1:	Conc.	U.M.	
Phosphate buffered saline	-	-	
Enhancer	-	-	
Sodium azide	0.95	g/L	
Reagent 2:			
Glicyne buffer	-	-	
ASL sensitized Latex	0.17	%	
Sodium azide	0.95	g/L	

Stability and Storage

The reagents are stable until expiry date when kept at 2-8°C. Stability in the instrument is at least 4 weeks if contamination is avoided. Do not freeze.

Reagents required but not supplied

1. Saline (9 g/L NaCl)

2. Calibrators and Controls	
Key Reference	Description
R1300001101	ASL (O) Calibrator High, 1 mL
R1400000901	Immunology Control Low, 1 mL
R1400001001	Immunology Control High 1 ml

Pooled human serum, liquid and stabilized. Contains 0.95 g/L sodium azide. Values are stated in the insert

Sample collection and storage

Use fresh serum. If the test cannot be carried out on the same day, the serum may be stored at 2 – 8°C for 48 hours. If stored for a longer period, the sample should be frozen.

General Assay Procedure

Application sheets are available upon request for use with I.S.E. S.r.l. automated systems. All applications not explicitly approved by I.S.E. S.r.I. cannot be guaranteed in terms of performance and must therefore be established by the operator. Wavelength λ=578nm.

Sample/Control/Standard: ready for use.

Reference curve: generate a reference curve by diluting the standard high level Ref. R1300001101 1:1, 1:2, 1:4, 1:8, 1:16 in saline 9 g/L. Use saline

9 g/L as zero point.

Quality control

It is necessary, each time the kit is used, to perform the quality controls and to check that values obtained are within the acceptance range provided in the insert. Each laboratory should establish its own mean and standard deviation and adopt a quality control program to monitor laboratory testing.

If erratic results occur, please contact an authorised ISE representative.

Normal Ranges

R1: 1x 50.0 mL

0 - 200 IU/mL (WHO).

R2: 1x 3.0 mL

R2: 1x 8.5 mL

Reference values are considered indicative since each laboratory should establish reference ranges for its own patient population. The analytical results should be evaluated with other information coming from patient's clinical history.

Performances

The performance characteristics for the Anti-Streptolysin (O) reagents were measured on a clinical chemistry analyzer.

Measuring range: 0 - 400 IU/mL. Detection Limit: 12.5 IU/mL Hookeffect:

No

Sensitivity: 0.0005 ABS units/concentration unit

Precision of the method

Condition	U.M.	Low	Medium	High
Intra-Run	CV%	4.33	2.29	2.41
Inter-Run	CV%	4.44	3.35	2.25

Accuracy of the method

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Control	U.M.	Assigned	Measured		
Bio-Rad 1	IU/mL	93.2(69.5-117)	95.2		
Bio-Rad 2	IU/mL	156 (123-189)	153		
Siemens	IU/mL	114 (91-137)	118		
Biokit	IU/mL	154 (123-185)	169		

Specificity:

No interference for: haemoglobin 1.0 g/dL, Na-citrate 1.0 g/dL, Interferences:

Heparin 50mg/dL, Turbidity 5%, Bilirubin 60mg/dL, EDTA 5mg/dL, and Trigliceride 2.5 g/dL. No interference with: hemolysed, icteric nor lipemic sera. Reumatoid Factor has no effect.

I imitations: None

Comparison with Siemens: y = 1.1247 x -3.3084 r = 0.9915

Stability at 2 - 8°C: at least 3 years after production

Precautions and Warnings

- In vitro diagnostic use only
- Refer to the safety data sheets (SDS) and take the necessary precautions for the use of laboratory reagents.
- Do not use after expiry date and do not interchange reagents from different lots.
- Replace caps on reagents immediately after use. Do not switch caps.
- Do not pipet by mouth. Do not smoke, eat, drink or use cosmetics during the use of the reagent. Do not swallow.
- Sodium azide has been reported to form lead or copper azide in laboratory plumbing which may explode on percussion. Flush drains whit water thoroughly after disposing of fluids containing sodium azide.
- Each donor unit used in the preparation of the reagents, standards and controls was found to be negative for the presence of HIV1 and HIV2 antibodies, as well as for the hepatitis B surface antigen and anti-hepatitis C antibodies, using a method approved by the FDA. However, the material must be considered potentially hazardous and handled with the same care as samples taken from patients.
- Cuts, abrasions, and other skin lesions should be properly protected with an appropriate waterproof dressing.
- Take care to avoid self-inoculation, splashing of mucous membranes or generation of aerosols. Laboratory gloves should be worn while handling patients' samples or disposing of solid or liquid wastes.
- In addition to the eventual risk indications regarding the active components, the reagents contain inactive components such as preservatives (e.g. sodium azide or others) and detergents. The total concentrations of these components are lower than the limits reported by the current directive sand following modification and amendments. However, it is recommended to handle reagents carefully, to avoid ingestion and contact with eyes, skin and mucus membranes and to use laboratory reagents according to good laboratory practice.
- 11. All human samples must be handled and disposed of as potentially infectious materials

Disposal of reagent

Disposal of reagents must be performed in accordance with the EC regulations regarding waste, or the local national or regional legislation.

Reporting of serious incidents

The user must report (through the distributor) any serious accident occurring in relation to the device to both the manufacturer and the competent authority of the European Union Member State in which the user and / or patient is established. For other jurisdictions,



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	Ē	DEE	R3330000050	R1 : 1x 17.5 mL	R2 : 1x 3.0 r	nL			E- 18
CUSTOMISED SOLUTIONS FOR YOUR LABORATORY		REF	A-R1100004401	R1: 1x 50.0 mL	R2 : 1x 8.5 r	nL		IVD	Rev

reports of serious incidents must be produced in accordance with regulatory requirements

Symbols on labels and packaging

	ymbolo on labelo ana packaging			
IVD	In vitro diagnostic medical device			
REF	Catalog Number			
LOT	Lot number			
***	Manufacturer			
\sum	Expiry date			
1	Temperature limitation			
Ţ i	Consult Instructions for use			
Rn	Reagent "n"			

References

1. Dillon, H. C. jr., Reeves M. A., Am. J. Med., <u>56</u>, 333-346 (1974) 2. Klein, G. C., Baker, C. N., Jones, W. L., <u>21</u>, 999-1001 (1971)

Revisio	n history	
Rev F	15-11-2022	Revision of the document