

ASO

REF C7000150SA 1x40 ml R1 / 1x10 ml R2

> Per uso diagnostico in vitro For in vitro medical device

1. Linearity limit: Up to 800 IU/mL, under the described assay conditions. Samples with higher concentrations, should be diluted 1/3 in NaCl 9 g/L and retested again. The linearity limit depends on the sample-reagent ratio, as well the analyzer used. It will be higher by decreasing the sample volume, although the sensitivity of the test will be proportionally decreased.

2. Detection limit: Values less than 20 IU/mL give non-reproducible results.

- 3. Prozone effect: No prozone effect was detected up to 3000 IU/mL 4. Sensitivity: Δ 0.73 mA. IU/mL.
- 5. Precision: The reagent has been tested for 20 days, using three different ASO concentrations in a

EP5		CV (%)			
	+/- 100 IU/mL	+/- 200 IU/mL	+/- 400 IU/mL		
Total	6.4%	5.7%	5.1%		
Within Run	2.4%	1.7%	1.4%		
Between Run	3.6%	4.2%	4.9%		
Between Day	4.7%	3.5%	0.7%		

6. Accuracy: Results obtained using this reagent (y) were compared to those obtained using a commercial reagent (x) with similar characteristics. 60 samples of different concentrations of ASO were assayed. The correlation coefficient (r) was 0.99 and the regression equation y = 0.915x - 4.844. The results of the performance characteristics depend on the analyzer used.

INTERFERENCES

Bilirrubin (20 mg/dL), hemoglobin (10 g/L), lipemia (10 g/L) and rheumatoid factors (600 IU/mL), do not interfere. Other substances may interfere

SIMBOLS

Clinical diagnosis should not be made on findings of a single test result, but should integrate both clinical and laboratory data.

BIBLIOGRAPHY

- 1. Haffejee I, Quarterly Journal of Medicine 1992, New series 84; 305: 641 658. 2. Alouf Jodeph E. Pharma Ther 1980; 11: 661-717.
- 3. M Fasani et al. Eur J Lab Med 1994; vol2.nº1: 67.

- Todd E W. J Exp Med 1932; 55: 267 280.
 Klein, GC. Applied Microbiology 1970; 19:60-61.
 Klein GC. Applied Microbiology 1971; 21: 999-1001.
 Young DS. Effects of drugs on clinical laboratory test, 4th ed. AACC Press, 1995.

Quantitative determination of anti-streptolysin O (ASO) Store 2-8°C PRINCIPLE OF THE METHOD The ASO-Turbilatex is a quantitative turbidimetric test for the measurement of ASO in human serum or nlasma

Latex particles coated with streptolysin O (SLO) are agglutinated when mixed with samples containing ASO. The agglutination causes an absorbance change, dependent upon the ASO contents of the patient sample that can be quantified by comparison from a calibrator of known ASO concentration.

CLINICAL SIGNIFICANCE

SLO is a toxic immunogenic exoenzyme produced by β -heamolitic Streptococci of groups A, C and G. Measuring the ASO antibodies are useful for the diagnostic of rheumatoid fever, acute glomerulonephritis and streptococcal infections. Rheumatic fever is an inflammatory disease affecting connective tissue from several parts of human body as skin, heart, joints etc... and acute glomerulonephritis is a renal infection that affects mainly to renal glommerulus.

REAGENTS	
Diluent (R1)	Tris buffer 20 mmol/L, pH 8.2. Preservative.
Latex (R2)	Latex particles coated with streptolysin O, pH 10.0. Preservative.
ASO- CAL	Calibrator. Human serum. ASO concentration is stated on the vial label.

Components from human origin have been tested and found to be negative for the presence of HBsAg, HCV, and antibody to HIV (1/2). However handle cautiously as potentially infectious.

CALIBRATION

Use ASO Calibrator

The sensitivity of the assay and the target value of the calibrator have been standardized against the ASO International Standard from NIBSC 97/662.

The calibration is stable for 3 weeks.

Recalibrate when control results are out of specified tolerances, when using different lot of reagent and when the instrument is adjusted.

PREPARATION

 $\textbf{ASO Calibrator:} \ \ \text{Reconstitute } (\boldsymbol{\rightarrow}) \ \ \text{with } \ \ 1.0 \ \ \text{mL of distilled water.} \quad \ \text{Mix gently and incubate at room}$ temperature for 10 minutes before use.

STORAGE AND STABILITY

All the components of the kit are stable until the expiration date on the label when stored tightly closed at 2-8°C and contaminations prevented during their use. Do not use reagents over the expiration date.

Reagent deterioration: Presence of particles and turbidity. ASO Calibrator: Stable for 1 month at 2-8°C or 3 months at -20°C.

Do not freeze; frozen Latex or Diluent could change the functionality of the test.

The final concentration of the components is below the limits imposed by Regulation (EC) No. 1272/2008 -CLP (and subsequent amendments) and Directive 88/379/CEE and subsequent amendments to the classification-packaging and labeling of dangerous substances.

ADDITIONAL EQUIPMENT

- Thermostatic bath at 37°C
- Spectrophotometer or photometer thermostatable at 37°C with a 540 nm filter.

SAMPLES

Fresh serum. Stable 7 days at 2-8°C or 3 months at –20°C. Samples with presence of fibrin should be centrifuged before testing. Do not use highly hemolized or lipemic samples.

Control sera are recommended to monitor the performance of manual and automated assay procedures. It should be used the Gesan Controls ASO/CRP/RF Normal Control (Ref.: 705CN) and High Control (Ref.:

Each laboratory should establish its own Quality Control scheme and corrective actions if controls do not meet the acceptable tolerances.

REFERENCE VALUES

Normal values up to 200 IU/mL (adults) and 100 IU/mL (children < 5 years old)6. Each laboratory should establish its own reference range.