

quantex ASO plus

Kit Configuration

P/N 3000-2304	1 x 90 mL ASO R1
	2 x 6 mL ASO R2

Reagent Preparation

P/N 3000-2304	ASO R1: Ready to use
	ASO R2: Ready to use.
	Place the bottles into reagent tray.

In Use Stability

For optimal stability remove reagents from the system and store them at 2-8°C in the original vial securely closed.
On board: 2 months (60 days).

Specimen

Serum.

Calibration

Use quantex ASO plus standard Cat. No 3000-2312. See vial label for lot specific concentration. A reagent blank should be run daily before sample analysis. Recalibrate every 60 days or when a new lot of reagent is used.

Quality Control

Use quantex ASO-CRP-RF control I Cat. No. 3000-2069. and ASO-CRP-RF control II Cat. No. 3000-2070

Calculation of Analytical Results

The results concentration is automatically calculated by the instrument against the Calibration curve. For detailed description, refer to the Instrument settings and to the ILab 600/650 Operator's Manual .

Reference Interval

Although normal values can vary with age, season of the year and geographical area, the "upper limit of normal" antistreptolysin-O titers for preschool children is less than 100 IU/mL, and in school age children or young adults is usually between 166 and 250 IU/mL. In any case, the average can be established at less than 200 IU/mL.

References / Literatur / Bibliografia / Bibliographie / Bibliografía /

See package insert enclosed in the kit

Performance Characteristics

Limitation/Interfering Substances

No significant interference from lipemia up to sample absorbance of 3.6/cm at 660 nm, triglycerides up to concentrations of 1282 mg/dL (14.5 mmol/L), bilirubin up to concentrations of 18 mg/dL (306 µmol/L), hemoglobin up to concentrations of 500 mg/dL (0.3 mmol/L) and rheumatoid factor up to 400 IU/mL. For a comprehensive review of interfering substances, refer to the publication by Young *et al.*¹

Precision

	Samples/Runs	Mean (IU/mL)	CV(%)	Mean(IU/mL)	CV(%)
Within run	3/10	183	3.7	335	4.3
Total	3/10	183	5.3	335	5.2

Method Comparison

Comparison Method	Same reagent
Comparison Instrument	ILab 900
Slope	1.069
y intercept	-18.71
Range (IU/mL)	4 - 2104
Mean X (IU/mL)	326
Mean Y (IU/mL)	330
r	0.9955
Syx	44.2
n	41

Linearity

no rerun 50 - 850 IU/mL ; with rerun 50 - 4250 IU/mL.

Instrument Settings

Photometric Test Parameters		Serum	Ranges and Evaluation Criteria		Serum
Test No.		**	Normal Range-Male		**
Test Name, Test Code		ASO, ASO	Normal Range-Female		**
Sample Type		Serum	Normal Range-Other		**
Reporting Unit, Decimal Points		IU/mL, 0	Valid Range		0 - 850
Reaction Cycle		Standard	Hemolysis/Icterus/Lipemia Limit		***
Twin Analysis		OFF	Reaction Slope		Positive
Methodology Type, Measuring Point		End Point, 18/22	Absorbance Limit		Above, 3200
Photometric Methodology		1 Wavelength	Prozone Limit		N/A
Primary/Secondary Wavelength		570	Non Linear Limit		N/A
Sampling Conditions			Slope/Intercept Correction		1/0
Sampling 1	Sample Vol.	4	Qualitative Report		OFF
	Sample/Diluent Vol.	0/0	Calibration Conditions		
Sampling 2	Sample Vol.	4	Calibration		1 Point, Linear, 3 Reps
	Sample/Diluent Vol.	30/120	Stability (days)		60
Sampling 3	Sample Vol.	***	Calibrator, Concentration		Std ASO, 300
	Sample/Diluent Vol.	0/0	R-Blank Limit (mAbs)		1500
Sampling 4		***	Cal. Reps Range (%)		***
Diluent Code		Saline	Min Cal. Response (mAbs)		***
Diluent Warning Limit		N/A	Cal. Factor Change (%)		***
First Run		Sampling 1	M-Point Curve Fit (%)		***
Below/Above Normal Range		***	Reagent Blank		ON
Panic L		***	Auto R-Blank by Bottle		ON
Panic H		Sampling 2			
Noise		***			
Prozone		N/A			
High!, ABS!		Sampling 2			
Sample Volume Reduction		**			
Reagent Volumes					
R1	Code	01951			
	Rgt/Dil. Vol. Stirring	300/0, ON			
	Low Vol. Warning Limit	***			
	Stability (days)	60			
R2	Code	01952			
	Rgt/Dil. Vol. Stirring	50/10, ON			
	Low Vol. Warning Limit	***			
	Stability (days)	60			

* Lot dependent
 ** operator definable
 *** optional
 N/A not applicable to this test