

quantex A-1-Acid Glycoprotein

Kit Configuration

P/N 3000-2179	1 x 100 mL A-1-AGP R1
	1 x 4 mL A-1-AGP R2

Reagent Preparation

P/N 3000-2179	A-1-AGP R1: Ready to use
	A-1-AGP 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.

Specimen

Serum.

Calibration

Use quantex Proteins standard multipoint Cat. No. 3000-2128 .See calibrator chart for lot specific concentrations. Recalibrate every 60 days or when a new lot of reagent is used.

Quality Control

Use quantex Proteins Control I/II Cat. No. 3000-2122.

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 350 Operator Manual.

Reference Interval

The reported expected range for A-1-Acid glycoprotein in adults is 50-120 mg/dL (0.5-1.2 g/L).

References / Literatur / Bibliografia / Bibliographie / Bibliografía /

See package insert enclosed in the kit

Performance Characteristics

Limitation/Interfering Substances

No significant interference from bilirubin up to concentrations of 20 mg/dL (340 µmol/L), hemoglobin up to concentrations of 1000 mg/dL (0.6 mmol/L), lipemia up to concentrations of 500 mg/dL and rheumatoid factor up to 197 IU/mL. For a comprehensive review of interfering substances, refer to the publication by Young et al.¹

Precision

Serum	Samples/Runs	Mean (mg/dL)	CV(%)	Mean (mg/dL)	CV(%)
Within run	4/10	46.4	4.9	143.6	1.8
Total	4/10	46.4	5.8	143.6	2.4

Method Comparison

Comparison Instrument and Reagent (x)	Nephelometric assay
Slope	1.182
y intercept	-11.2
Range (mg/dL)	24 - 261
Mean X (mg/dL)	118.4
Mean Y (mg/dL)	128.8
r	0.958
n	100

Linearity

no rerun 6 - 200 mg/dL ; with rerun 6 - 1600 mg/dL

Minimum Detection Limit

5.3 mg/dL

Quantification Limit

6 mg/dL

Instrument Settings

Chemistry Parameters		R1	
Method	<input type="text"/>	Reagent Name	<input type="text" value="AGP"/> Volume <input type="text" value="200 μL"/>
Name	<input type="text" value="AGP"/>	R2	<input type="text" value="enable"/> Reagent Name <input type="text" value="AGP"/> Volume <input type="text" value="30 μL"/>
Unit	<input type="text" value="mg/dL"/>	Wash	<input type="text" value="disable"/> Reagent Name <input type="text"/>
Assay Type	<input type="text" value="End"/>	Diluent	<input type="text" value="enable"/> Reagent Type <input type="text"/>
			Reagent Name <input type="text" value="Saline"/>
Measuring Points	1 enable	start	<input type="text" value="12"/>
		end	<input type="text" value="13"/>
	2 enable	start	<input type="text" value="25"/>
		end	<input type="text" value="26"/>
Wave Length		Decimal Points	<input type="text" value="0"/>
Prim	<input type="text" value="510"/>	Sec	<input type="text"/>
		Technical Range (Conc)	<input type="text" value="0.0"/> <input type="text" value="200"/>
		mAbs/10	<input type="text" value="-30000"/> <input type="text" value="30000"/>
Sampling Volume	<input type="text" value="3 μL"/>	RPT Wash	(R1) <input type="text" value="Sys Water"/>
Dilution	<input type="text" value="disable"/>		(R2) <input type="text" value="Sys Water"/>
Rerun (High)	<input type="text" value="3 μL"/>	Instrument Factor a	<input type="text" value="1"/>
Dilution	<input type="text" value="enable"/>	Stirring Speed	R1 <input type="text" value="Low"/> R2 <input type="text" value="Low"/>
Rerun (Low)	<input type="text" value="20 μL"/> <input type="text" value="140 μL"/>		
	<input type="text" value="6 μL"/>		

Calibration Checks

** Duplicate Limit	<input type="text"/>	** mAbs/10	Sampling Method for Standards
** Sensitivity Limit	<input type="text"/>	** mAbs/10	<input checked="" type="checkbox"/> Duplicate
			<input type="checkbox"/> Triplicate
** Linearity Limit	<input type="text"/>	** %	
** Prozone Limit	<input type="text" value="upper"/>		Blank measurement
SL1-S	** <input type="text" value="SL1-F"/>	**	<input checked="" type="checkbox"/> Enable Reagent blank
SL2-S	** <input type="text" value="SL2-F"/>	**	<input type="text" value="None"/>
Sens	<input type="text"/>	mAbs/10	Reagent blank measurement at calibration
			<input checked="" type="checkbox"/> Reagent blank (system water)
<input checked="" type="checkbox"/> Absorbance Limit			** Multiplex measurement is the same as standards
Reaction	<input type="text" value="Increase"/>		Reagent Blank Limit Checks
Limit	<input type="text" value="25000"/>	mAbs/10	** Duplicate limit <input type="text" value="50"/> mAbs/10

Calibration

Method	<input type="text"/>	Name	<input type="text" value="AGP"/>	Interval	<input type="text" value="60"/> days
Calculation	<input type="text" value="Point to Point"/>				
	Conc	WORK	MASTER	Lot No	
S1	<input type="text" value="0"/>	<input type="text" value="-18"/>			K <input type="text" value="N/A"/>
S2	<input type="text" value="18"/>	<input type="text" value="172"/>			
S3	<input type="text" value="45"/>	<input type="text" value="1369"/>			
S4	<input type="text" value="90"/>	<input type="text" value="3864"/>			
S5	<input type="text" value="134"/>	<input type="text" value="6333"/>			
S6	<input type="text" value="179"/>	<input type="text" value="8246"/>			

Reagent Registration

Reagent Code	<input type="text" value="0186"/>				
Reagent Name	<input type="text" value="AGP"/>				
R1	<input checked="" type="checkbox"/> Enable	Volume (L)	<input type="text" value="**"/> mL	Volume (S)	<input type="text" value="**"/> mL
R2	<input checked="" type="checkbox"/> enable	Volume (L)	<input type="text" value="**"/> mL	Volume (S)	<input type="text" value="**"/> mL
		Stability Check	<input checked="" type="checkbox"/> Enable	Term	<input type="text" value="**"/> days
			<input checked="" type="checkbox"/> enable		<input type="text" value="**"/> days

** Operator definable N/A not applicable to this test Calibration curve is only as example