

quantex IgG



Kit Configuration

P/N 3000-2269 2 x 90 mL IgG R1
4 x 16 mL IgG R2

Reagent Preparation

P/N 3000-2269 IgG R1: Ready to use.
IgG 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 quantexPROTEINS standard multipoint Cat. No 300-2128. See calibrator insert sheet for specific concentrations. Recalibrate every 90 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 IgG in adults is 700 - 1600 mg/dL (7.0 – 16.0 g/L).

References / Literatur / Bibliografía / Bibliographie / Bibliografia /

See package insert enclosed in the kit

Performance Characteristics

Limitation/Interfering Substances

No significant interference from lipemia up to sample absorbance of 7.0/cm at 660 nm, triglycerides up to concentrations of 1280 mg/dL (15 mmol/L), bilirubin up to concentrations of 20 mg/dL (340 µmol/L) and hemoglobin up to concentrations of 500 mg/dL (0.3 mmol/L). For a comprehensive review of interfering substances, refer to the publication by Young *et al.*¹

Precision

	Samples/Runs	Mean (mg/dL)	CV(%)	Mean (mg/dL)	CV(%)
Within run	4/10	611	2.2	1790	1.5
Total	4/10	611	3.1	1790	2.3

Method Comparison

Comparison Method (x)	same reagent
Comparison Instrument (x)	ILab 900
Slope	1.05
y intercept	-17.84
Mean X (mg/dL)	1150
Mean Y (mg/dL)	1189
r	0.99
n	48

Linearity

no rerun 596 - 4100 mg/dL ; with rerun 179 - 32800 mg/dL

Minimun Detection Limit

15.23 mg/dL

Quantification Limit

596 mg/dL



Instrument Settings

Chemistry Parameters				R1			
Method	<input type="text"/>	Reagent Name	<input type="text" value="IgG"/>	Volume	<input type="text" value="240 μL"/>		
Name	<input type="text" value="IgG"/>	R2	<input type="text" value="enable"/>				
Unit	<input type="text" value="mg/dL"/>	Reagent Name	<input type="text" value="IgG"/>	Volume	<input type="text" value="250 μL"/>		
Assay Type	<input type="text" value="End"/>	Wash	<input type="text" value="disable"/>	Reagent Name	<input type="text"/>		
		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"/>	Decimal Points	<input type="text" value="0"/>		
		end	<input type="text" value="13"/>				
	2 enable	start	<input type="text" value="25"/>	Normal Range	<input type="text" value="700"/>	<input type="text" value="1600"/>	
		end	<input type="text" value="26"/>				
Wave Length							
Prim	<input type="text" value="600"/>	Sec	<input type="text"/>	Technical Range (Conc)	<input type="text" value="596"/>	<input type="text" value="4100"/>	
				mAbs/10	<input type="text" value="-30000 / 30000"/>		
Sampling Volume	<input type="text" value="3 μL"/>						
Dilution	<input type="text" value="disable"/>	RPT Wash	(R1)	<input type="text" value="Sys Water"/>			
	<input type="text" value="μL"/>		(R2)	<input type="text" value="Sys Water"/>			
Rerun (High)	<input type="text" value="3 μL"/>						
Dilution	<input type="text" value="enable"/>	Instrument Factor a	<input type="text" value="1"/>	b	<input type="text" value="0"/>		
	<input type="text" value="20 μL"/>	Stirring Speed	R1	<input type="text" value="high"/>	R2	<input type="text" value="high"/>	
	<input type="text" value="140 μL"/>						
Rerun (Low)	<input type="text" value="10 μL"/>						

Calibration Checks

** Duplicate Limit	<input type="text" value="**"/>	mAbs/10	Sampling Method for Standards				
** Sensitivity Limit	<input type="text" value="**"/>	mAbs/10	<input checked="" type="checkbox"/>	Duplicate			
			<input type="checkbox"/>	Triplicate			
** Linearity Limit	<input type="text" value="**"/>	%					
** 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" value="**"/>	mAbs/10	Reagent blank measurement at calibration				
x Absorbance Limit	<input type="text" value="x"/>		<input checked="" type="checkbox"/>	Reagent blank (system water)			
Reaction	<input type="text" value="Increase"/>		Multiplex measurement is the same as standards				
Limit	<input type="text" value="25000"/>	mAbs/10	Reagent Blank Limit Checks				
			<input type="text" value="**"/>	Duplicate limit		<input type="text" value="50"/>	mAbs/10

Calibration

Method	<input type="text"/>	Name	<input type="text" value="IgG"/>	Interval	<input type="text" value="90"/>	days
Calculation	<input type="text" value="Point to Point"/>					
	Conc	WORK	MASTER	Lot No		
S1	<input type="text" value="0"/>	<input type="text" value="-1"/>	<input type="text"/>	<input type="text"/>	K	<input type="text" value="N/A"/>
S2	<input type="text" value="349"/>	<input type="text" value="1624"/>	<input type="text"/>	<input type="text"/>		
S3	<input type="text" value="874"/>	<input type="text" value="5340"/>	<input type="text"/>	<input type="text"/>		
S4	<input type="text" value="1747"/>	<input type="text" value="10668"/>	<input type="text"/>	<input type="text"/>		
S5	<input type="text" value="2621"/>	<input type="text" value="13597"/>	<input type="text"/>	<input type="text"/>		
S6	<input type="text" value="3404"/>	<input type="text" value="14680"/>	<input type="text"/>	<input type="text"/>		

Reagent Registration

Reagent Code	<input type="text" value="0174"/>													
Reagent Name	<input type="text" value="IgG"/>													
R1	<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
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
**	Operator definable		N/A	not applicable to this test			Calibration curve is only as example							