

Kit Configuration

P/N 3000-2309	1 x 60 mL C4 R1
	4 x 12 mL C4 R2

Reagent Preparation

P/N 3000-2309	C4 R1: Ready to use
	C4 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 300-2121. See calibrator chart for lot specific concentrations. Recalibrate every 28 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

Concentrations of C4 between 10 and 40 mg/dL (0.3 - 1.0 g/L) are considered normal.

References / Literatur / Bibliografia / Bibliographie / Bibliografia /

See package insert enclosed in the kit

Performance Characteristics

Limitation/Interfering Substances

No significant interference from lipemia up to sample absorbance of 4.9/cm at 660 nm, triglycerides up to concentrations of 640 mg/dL, bilirubin up to concentrations of 38 mg/dL (646 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	14.3	5.3	39.9	2.8
Total	4/10	14.3	7.2	39.9	3.8

Method Comparison

Comparison Method (x)	same reagent
Comparison Instrument (x)	Nephelometer (Behring, BN II)
Slope	1.028
y intercept	0.01
Mean X (mg/dL)	0.245
Mean Y (mg/dL)	0.262
r	0.972
n	100

Linearity

no rerun 10 - 95 mg/dL ; with rerun 10 - 760 mg/dL

Minimum Detection Limit

1.2 mg/L

Quantification Limit

10 mg/dL

Instrument Settings

Chemistry Parameters				R1	
Method	<input type="text"/>	Reagent Name	<input type="text" value="C3/C4"/>	Volume	<input type="text" value="190 μL"/>
Name	<input type="text" value="C4"/>	R2	<input type="text" value="enable"/>		
Unit	<input type="text" value="mg/dL"/>	Reagent Name	<input type="text" value="C4"/>	Volume	<input type="text" value="190 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="10"/> <input type="text" value="40"/>
		end	<input type="text" value="26"/>		
Wave Length				Technical Range (Conc)	<input type="text" value="0.0"/> <input type="text" value="95"/>
Prim	<input type="text" value="340"/>	Sec	<input type="text"/>	mAbs/10	<input type="text" value="-30000"/> <input type="text" value="30000"/>
Sampling Volume	<input type="text" value="7 μL"/>				
Dilution	<input type="text" value="disable"/>	RPT Wash	(R1) <input type="text" value="Sys Water"/>		
	<input type="text" value="μL"/> <input type="text" value="μL"/>		(R2) <input type="text" value="Sys Water"/>		
Rerun (High)	<input type="text" value="7 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"/> <input type="text" value="140 μL"/>	Stirring Speed	R1 <input type="text" value="high"/>	R2	<input type="text" value="high"/>
Rerun (Low)	<input type="text" value="14 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"/>	** %	Blank measurement	
** Prozone Limit	<input type="text"/>	upper	<input checked="" type="checkbox"/> Enable Reagent blank	
SL1-S	**	SL1-F **	<input type="text" value="None"/>	
SL2-S	**	SL2-F **	Reagent blank measurement at calibration	
Sens	**	mAbs/10	<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="C4"/>	Interval	<input type="text" value="28"/> days
Calculation	<input type="text" value="Point to Point"/>				
	Conc	WORK	MASTER	Lot No	
S1	<input type="text" value="0"/>	<input type="text" value="10"/>			K <input type="text" value="N/A"/>
S2	<input type="text" value="9"/>	<input type="text" value="225"/>			
S3	<input type="text" value="22"/>	<input type="text" value="975"/>			
S4	<input type="text" value="44"/>	<input type="text" value="1932"/>			
S5	<input type="text" value="66"/>	<input type="text" value="2755"/>			
S6	<input type="text" value="88"/>	<input type="text" value="3397"/>			

Reagent Registration

Reagent Code	<input type="text" value="7778"/>	<input type="text" value="0178"/>			
Reagent Name	<input type="text" value="C3/C4"/>	<input type="text" value="C4"/>			
		Volume (L)	Volume (S)	Stability Check	Term
R1	<input checked="" type="checkbox"/> enable	<input type="text" value="**"/> mL	<input type="text" value="**"/> mL	<input checked="" type="checkbox"/> enable	<input type="text" value="**"/> days
R2	<input checked="" type="checkbox"/> enable	<input type="text" value="**"/> mL	<input type="text" value="**"/> mL	<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	