

quantex TRANSFERRIN



Kit Configuration

P/N 3000-2172	2 x 100 mL TRF R1
	2 x 4 mL TRF R2

Reagent Preparation

P/N 3000-2172 TRF R1: Ready to use.
 TRF R2: Ready to use.
 Place the bottles into reagent tray.

In Use Stability

For optimal stability remove reagents from the system immediately after use, and store them at 2-8°C in the original vial securely closed.

Specimen

Serum.

Calibration

Use quantex PROTEINS standard multipoint Cat. No 300-2128. The calibrator concentrations are indicated insert sheet. 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 transferrin in adults is 200-360 mg/dL (2.0-3.6 g/L).

References / Literatur / Bibliografía / Bibliographie / Bibliografia /

See package insert enclosed in the kit

Performance Characteristics

Limitation/Interfering Substances

No significant interference from bilirubin up to concentrations of 20 mg/dL (342 µmol/L), hemoglobin up to concentrations of 500 mg/dL, (0.3 mmol/L) lipemia up to concentrations of 1000 mg/dL (11.3 mmol/L) and rheumatoid factor up to 300 IU/mL. 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	159	3.5	428	5.3
Total	4/10	159	2.5	428	3.2

Method Comparison

Comparison Method (x)	same reagent
Comparison Instrument (x)	ILab 300
Slope	1.04
y intercept	5.77
Mean X (mg/dL)	632
Mean Y (mg/dL)	676
r	0.99
n	46

Linearity

no rerun 35- 669 mg/dL ; with rerun 35- 5280 mg/dL

Minimum Detection Limit

4.7 mg/dL

Quantification Limit

35 mg/dL



Instrument Settings

Chemistry Parameters				R1			
Method	<input type="text"/>	Reagent Name	<input type="text" value="TRF"/>	Volume	<input type="text" value="250 μL"/>		
Name	<input type="text" value="TRF"/>	R2	<input type="text" value="enable"/>				
Unit	<input type="text" value="mg/dL"/>	Reagent Name	<input type="text" value="TRF"/>	Volume	<input type="text" value="30 μL"/>		
Assay Type	<input type="text" value="End"/>	Wash	<input type="text" value="disable"/>	Reagent Name			
		Diluent	<input type="text" value="enable"/>	Reagent Type			
		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="200"/>	<input type="text" value="360"/>	
		end	<input type="text" value="26"/>				
Wave Length				Technical Range (Conc)	<input type="text" value="0.0"/>	<input type="text" value="660"/>	
Prim	<input type="text" value="510"/>	Sec	<input type="text"/>	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"/>	<input type="text"/>		(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"/>	<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="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"/>	** %	Blank measurement			
** Prozone Limit	<input type="text" value="upper"/>		<input checked="" type="checkbox"/> Enable Reagent blank			
SL1-S	** <input type="text" value="SL1-F"/>	**	<input type="text" value="None"/>			
SL2-S	** <input type="text" value="SL2-F"/>	**	Reagent blank measurement at calibration			
Sens	<input type="text"/>	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="TFR"/>	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="-98"/>			K	<input type="text" value="N/A"/>
S2	<input type="text" value="65"/>	<input type="text" value="2856"/>				
S3	<input type="text" value="161"/>	<input type="text" value="5794"/>				
S4	<input type="text" value="323"/>	<input type="text" value="9977"/>				
S5	<input type="text" value="484"/>	<input type="text" value="12950"/>				
S6	<input type="text" value="645"/>	<input type="text" value="14912"/>				

Reagent Registration

Reagent Code	<input type="text" value="0181"/>					
Reagent Name	<input type="text" value="TFR"/>					
R1	<input checked="" type="checkbox"/> enable	Volume (L)	<input type="text" value="**"/>	mL	Volume (S)	<input type="text" value="**"/>
R2	<input checked="" type="checkbox"/> enable	Volume (L)	<input type="text" value="**"/>	mL	Volume (S)	<input type="text" value="**"/>
		Stability Check	<input checked="" type="checkbox"/> enable	Term	<input type="text" value="**"/>	days
		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