

quantex MYOGLOBIN



**Kit Configuration**

P/N 3000-2329	1 x 12 mL MYO R1
	2 x 6 mL MYO R2

**Reagent Preparation**

P/N 3000-2329 MYO R1: Ready to use.  
 MYO R2: Ready to use. Invert to mix well before first use. Avoid foam formation.  
 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 MYOGLOBIN standard multipoint Cat. No 300-2330. See calibrator insert sheet for specific concentrations. Recalibrate every 35 days or when a new lot of reagent is used.

**Quality Control**

Use quantex Ferritin/Myoglobin/IgE Control I/II Cat. No. 3000-2222..

**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**

Myoglobin normal values can vary with age, sex and race. The upper limit for the reference interval (95th percentile) calculated for a group of healthy adult blood bank donors was 69 ng/mL. The upper limit for women (n = 181) was 43 ng/mL and for men (n = 175) was 76 ng/mL.

**References / Literatur / Bibliografía / Bibliographie / Bibliografia /**

See package insert enclosed in the kit

**Performance Characteristics**

**Limitation/Interfering Substances**

No significant interference from lipemia up to a sample absorbance of 1.6/cm at 660 nm, triglycerides up to concentrations of 1300 mg/dL, bilirubin up to concentrations of 20 mg/dL, hemoglobin up to concentrations of 500 mg/dL and rheumatoid factor up to 800 IU/mL. For a comprehensive review of interfering substances, refer to the publication by Young *et al.*<sup>1</sup>

**Precision**

	Samples/Runs	Mean (ng/mL)	CV(%)	Mean(ng/mL)	CV(%)
Within run	4/10	61	2.3	217	1.1
Total	4/10	61	2.4	217	1.3

**Method Comparison**

Comparison Method (x)	Quantex Myo OLD
Slope	1.004
y intercept	1.478
Mean X (ng/mL)	58
Mean Y (ng/mL)	60
r	0.99
n	40

**Linearity**

no rerun 12 - 500 ng/mL ; with rerun 12 - 4000 ng/mL

**Minimum Detection Limit**

6 ng/mL

**Quantification Limit**

12 ng/mL



### Instrument Settings

<b>Chemistry Parameters</b>				R1			
Method	<input type="text"/>	Reagent Name	<input type="text" value="MYO"/>	Volume	<input type="text" value="120 μL"/>		
Name	<input type="text" value="MYO"/>	R2	<input type="text" value="enable"/>	Reagent Name	<input type="text" value="MYO"/>	Volume	<input type="text" value="90 μL"/>
Unit	<input type="text" value="ng/mL"/>	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="15"/>	Decimal Points	<input type="text" value="0"/>		
		end	<input type="text" value="16"/>	Normal Range	<input type="text" value="0"/>	<input type="text" value="20"/>	
	2 enable	start	<input type="text" value="25"/>				
		end	<input type="text" value="26"/>				
Wave Length							
Prim	<input type="text" value="570"/>	Sec	<input type="text"/>	Technical Range (Conc)	<input type="text" value="0.0"/>	<input type="text" value="500"/>	
				mAbs/10	<input type="text" value="-30000 / 30000"/>		
Sampling Volume	<input type="text" value="12 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="10 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="24 μL"/>						

### Calibration Checks

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

### Calibration

Method	<input type="text"/>	Name	<input type="text" value="MYO"/>	Interval	<input type="text" value="35"/>	days
Calculation	<input type="text" value="Point to Point"/>					
	Conc	WORK	MASTER	Lot No		
S1	<input type="text" value="0"/>	<input type="text" value="-0.5"/>			K	<input type="text" value="N/A"/>
S2	<input type="text" value="62.5"/>	<input type="text" value="383"/>				
S3	<input type="text" value="125"/>	<input type="text" value="900"/>				
S4	<input type="text" value="250"/>	<input type="text" value="2027"/>				
S5	<input type="text" value="500"/>	<input type="text" value="4076"/>				
S6						

### Reagent Registration

Reagent Code	<input type="text" value="0290"/>						
Reagent Name	<input type="text" value="MYO"/>						
	Volume (L)		Volume (S)		Stability Check		Term
R1	<input checked="" type="checkbox"/>	enable	**	mL	**	mL	<input checked="" type="checkbox"/>
R2	<input checked="" type="checkbox"/>	enable	**	mL	**	mL	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	enable	**	mL	**	mL	<input checked="" type="checkbox"/>

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