

quantex Valproic Acid

Kit Configuration

P/N 3000-2280	2 x 15 mL VALP R1
	2 x 3.8 mL VALP R2

Reagent Preparation

P/N 3000-2280: VALP R1: Ready to use.
 VALP R2: Ready to use. Invert to mix well before first use. Avoid foam formation
 Place the bottles into reagent tray.

In Use Stability

Stable until the expiration date shown on the vial when stored at 2-8°C. 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 VALPROIC ACID standard multipoint Cat. No 3000-2288. The concentrations in µg/mL are indicated on the vial labels. Recalibrate every 7 days, when a new lot of reagents is used, when control recovery falls out of the expected range or when adjustments are made to the instrument. A reagent blank should be run daily before sample analysis.

Quality Control

Use quantex TDM control I/II Cat. No 3000-2303.

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 600/650 Operator's Manual.

Therapeutic Range

The typical therapeutic range is 50 - 100 µg/mL (347 - 693 µmol/L) and the toxic range is > 100 µg/mL (> 693 µmol/L). Some patients achieve the desired therapeutic response at levels outside this range; therefore, individual clinical evaluation should be considered when interpreting assay results.
 To convert results to µmol/l multiply by 6.93.^{1,5}

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, hemoglobin up to concentrations of 1000 mg/dL and lipemia up to concentrations of 20 g/L. For a comprehensive review of interfering substances, refer to the publication by Young *et al.*⁴

Precision

	Samples/ Runs	Mean (µg/mL)	CV (%)	Mean (µg/mL)	CV (%)
Within run	3/10	35.9	5.4	83.2	1.4
Total	3/10	35.9	6.1	83.2	3.1

Linearity

no rerun 10 to 150 µg/mL
 With rerun 10 to 1200 µg/mL

Instrument Settings

Photometric Test Parameters		Serum
Test No.		**
Test Name, Test Code		VALP, VALP
Sample Type		Serum
Reporting Unit, Decimal Points		µg/mL, 1
Reaction Cycle		Standard
Twin Analysis		OFF
Methodology Type, Measuring Point		End Point, 20/33
Photometric Methodology		1 Wavelength
Primary/Secondary Wavelength		600
Sampling Conditions		
<i>Sampling 1</i>	Sample Vol.	2
	Sample/Diluent Vol.	0/0
<i>Sampling 2</i>	Sample Vol.	2
	Sample/Diluent Vol.	20/140
<i>Sampling 3</i>	Sample Vol.	4
	Sample/Diluent Vol.	0/0
<i>Sampling 4</i>		***
Diluent Code		Saline
Diluent Warning Limit		***
First Run		Sampling 1
Below/Above Normal Range		***
Panic L		***
Panic H		Sampling 2
Noise		***
Prozone		N/A
High!, ABS!		***
Sample Volume Reduction		**
Reagent Volumes		
R1	Code	01501
	Rgt/Dil. Vol. Stirring	200/0, ON
	Low Vol. Warning Limit	***
	Stability (days)	**
R2	Code	01502
	Rgt/Dil. Vol. Stirring	50/10, ON
	Low Vol. Warning Limit	***
	Stability (days)	**

Ranges and Evaluation Criteria	Serum
Normal Range-Male	**
Normal Range-Female	**
Normal Range-Other	**
Valid Range	0 - 150
Hemolysis/Icterus/Lipemia Limit	***
Reaction Slope	Positive
Absorbance Limit	Above, 3200
Prozone Limit	N/A
Non Linear Limit	N/A
Slope/Intercept Correction	1/0
Qualitative Report	OFF
Calibration Conditions	
Calibration	6 Points, point to point, 2 Reps
Stability (days)	7
Calibrator, Concentration	Valproic Std, *
R-Blank Limit (mAbs)	3500
Cal. Repts Range (%)	***
Min Cal. Response (mAbs)	***
Cal. Factor Change (%)	***
M-Point Curve Fit (%)	N/A
Reagent Blank	ON
Auto R-Blank by Bottle	ON

- * Lot dependent
- ** operator definable
- *** optional
- N/A not applicable to this test

