

STANBIO LABORATORY B-HYDROXYBUTYRATE LIQUICOLOR®

Order information

Cat. No.	Kit size							
2440-058	R1	1 x	50 mL	+	R2	1 x	8.5 mL	
					Std	1 x	3 mL	
2460-605		6 x	5 mL				Controls	

Method

Colorimetric test, "Beta-hydroxybutyrate"

Beta -hydroxybutyrate in the presence of NAD gets converted to acetoacetate and NADH at pH 8.5 by Beta-hydroxybutyrate dehydrogenase. The NADH produced reacts with INT in the presence of diaphorase to produce color at 505 - 520nm.

Reagent* preparation and stability

The reagents and standard are ready-to-use and stable up to the end of the indicated month of expiry, if contamination is avoided and stored at 2 – 8 °C.

Specimen

Serum, heparinized or EDTA plasma. Avoid hemolysis!

Store protected from light.

Stability: 7 days at 2 - 8°C

Components

R1: B-Hydroxybutyrate Dehydrogenase
Diaphorase
Buffer

R2: NAD
INT
Oxalate
Buffer

Notes

See "Interfering Substance" section in IFU for a complete listing of substances found not to interfere with this assay.

Expected Values

Normal Range: 0.02 - 0.27 mmol/L

liquid stable

OLYMPUS AU5800*

Chemistry settings

Test No.	#	Name	BHB	Type	Ser/PI
Sample vol.(µl)	4.8		Dil. vol.(µl)	0	
Pre-Dilution Rate	1		Diluent Bottle	Out	
Reagent 1 vol.(µl)	168		Dil. vol.(µl)	0	
Reagent 2 vol.(µl)	28		Dil vol.(µl)	0	
Wavelength	Pri. 520		Sec		800
Method	END				
Reaction Slope	+				
Point 1	Fst 0		Lst		27
Point 2	Fst 0		Lst		10
Linearity Limit (%)	-				
Lag-Time Check	-				
Min OD	L		Max OD	H	
Reagent OD limit					
	Fst.L -0.1000		Fst.H	2.500	
	Lst.L -0.1000		Lst.H	2.500	
Dynamic range					
	L 0.1		H	8.0	
Correlation Factor	A 1.0				
	B 0.0				
Factor of Maker	A 1		B		0
Onboard Stability	#				
Calibration Specific					
Calibration Type	AB				
Formula	Y=Ax+B				
Counts	#				
Point 1	#				
Conc.	1.0 *				
Stability Rgt. Blk.	#				
Stability Cal.	Day: #		Hour: #		
Factor Range	Low: 0		High: 9.999		
MB Type Factor	-		1-Point Cal. Pt.	-	
Range					
Value/Flag	#				
Level	Low #		High		#
Panic Value	Low #		High		#
Unit	mmol/L		Decimal Places		2

#) Data entry by the user

*) Enter calibration or standard value and position

-) No input required

***This protocol has been generated by a user of our assay with the Olympus analyzer. It has not been validated by Stanbio Laboratory or the instrument manufacturer. Please verify parameters on your analyzer before reporting patient results.**

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