

β -Hydroxybutyrate LiquiColor®

Beckman Synchron® LX

Cat. No.	Kit size				
2440-058	R1 1 x	50 mL	+	R2	1 x 8.5 mL
				Std.	1x 3 mL

Method

β -Hydroxybutyrate (D-3-hydroxybutyrate) in the presence of NAD is converted to acetoacetate and NADH at pH 8.5 by β -Hydroxybutyrate dehydrogenase (D-3-hydroxybutyrate dehydrogenase). At this pH the reaction is favored to the right. The NADH produced is converted to color using INT and diaphorase.

The reagents 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. The reagent 2 must be protected from light.

Pour Reagent 1 into compartment B and Reagent 2 into compartment C.

Serum, heparinized, sodium fluoride or EDTA plasma. Avoid hemolysis!
Stable at least one week if kept at 2 - 8 °C

R1: Reagent 1 - Enzyme
β-Hydroxybutyrate
Dehydrogenase
Diaphorase

R2: Reagent 2 – Catalyst
NAD
INT
Oxalate

1. The reagents contain Sodium Azide (0.095 %) as preservative.
Do not swallow! Avoid contact with skin and mucous membranes!

Adults	0.02 – 0.27 mmol/L
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Temperature : 37°C

Chemistry Parameters			
Test Name:	BHOB	User def. No:	#
Chem Name:	BHOB		
Reaction Type:	Endpoint		
Units:	mmol/L	No. of Calibrators:	2
Decimal:	2	Calibrator 1:	0.0 (H2O)
Reaction Dir.:	Positive	Calibrator 2:	1.0 (Std.)
Calculation Factor:	1.0	Calibrator 3:	
Math Model:	Linear	Calibrator 4:	
Cal Time Limit:	336hr	Calibrator 5:	
Pri. Wavelength:	520	Calibrator 6:	
		Sec. Wavelength:	700
Reagent 1 [A]:		[C] Volume	40 µL
Reagent 2 [B]:	200 µL	Inject Time:	240 sec.
Sample Volume:	3 µL		
Reagent Blank:			
Start Read:	200 sec.	Reaction 1	
End Read:	220 sec.	Start Read:	540 sec.
Usable Range:	LL: 0.0	End read:	560 sec.
	UL: 8.0		
Error Detection Limits			
Reagent Blk L:	-1.500	Reaction Low:	-1.500
H:	2.200	High:	2.200
Substrate Depletion:			
Initial Rate:	99.999	Delta Abs.:	2.200
Multipoint Span	0.000		

#) Data entry by the user