Stanbio Laboratory β-Hydroxybutyrate LiquiColor[®] Preliminary*

Order information

Ref. No.	Size
2440-058, BOHB Kit	R1 1 x 50 mL + R2 1 x 8.5 mL
	Std. 1 x 3 mL
2460-605, Tri-level Controls	6 x 5 mL
2465-605, Bi-level Controls	6 x 5 mL
2450-604, Linearity Standards	6 x 4 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.

Reagent Preparation and Stability

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.

Use Reagent A as R1 and Reagent B as R2.

Specimen

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

Components and concentration in the test

- R1: Reagent A Enzyme β-Hydroxybutyrate Dehydrogenase Diaphorase
 R2: Reagent B – Catalyst NAD INT
 - Oxalate

Notes

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

Normal Range

Adults 0.10 – 0.27 mmol/L Conversion: mg/dL = mmol/L x 10.4

> *Customers should be aware that this protocol has been generated by a user of our assay on a Cobas Integra 800 analyzer and has not been validated by Stanbio Laboratory or the instrument manufacturer.

		Cobas Integra 800
GENERAL		
Test:	Test ID:	8-634
	Short Name:	BOHB
	Long Name:	β-Hydroxybutyrate
	Test No.:	634
	Version No.	87A.00
	General Test Class:	Substrate
	Default Sample Type:	Serum
	Measurement Mode:	ABS
	Clot Detection:	Enabled
CALIBRATION		
Calibrator Editor:	Selected Calibrator:	User Defined (87-6341-0)
	Short Name:	BOHST
	Long Name;	BOHB Standard
	Version No.:	87A.00
Calibrator Definitions:	No. of Standards	2
	Replicate:	Duplicate
	Sequence:	Cassette & Interval days: 0
	BOD Action:	Test Requested
DILUENT	DOD / Rettoll.	Test Requested
DILUENT	Selected Pre-Diluent:	None
	Selected Diluent:	None
PIPETTING	Selected Dirdelit.	None
Sample and Control Definitions:	Pre-dilution:	Disabled
	Reaction Mode:	R1-S-SR
Pipetting Parameter		
	Pipettng Depth:	Normal
Pipetting Volumes	S: Specimen:	4.00 μL Water: 5.00 μL
	R1: Reagent:	150 μL Water: 5.00 μL
	SR: Reagent:	25 μL Water: 5.00 μL
CASSETTE		
Cassette	Cassette ID:	87-6340-0
	Short Name:	BOHB
	Long Name:	β-Hydroxybutyrate
	Version:	87A.00
Development channel COBAS c pack	No. of Tests:	150
	Container B:	Empty - Volume (mL): 0.00
	Container A:	R1 - Volume (mL): 25.85
	Container C:	R1 - Volume (mL): 23.83 R2 - Volume (mL): 6.39
NC: -		
Mixing	By BOD:	Enabled-Mix Time: 1 minute
On-board Stability	On-board Stability:	Enabled - Time to use: 30 days
CALCULATION		
General	ABS Calculation Model:	Endpoint
	Wavelength L 1:	512 nm
	Wavelength L2:	800 nm
	Reaction Direction:	Increase
	Calculation Point First:	50
	Calculation Point Last:	98
	Standard Unit:	mmol/L
Calibration:	Curve Direction Check:	Off
Canulation.		
CHECKS	Calculation Model:	Linear Regression
CHECKS	Low Limit:	Dischlad
Reagent Range:	Low Limit: High Limit:	Disabled Disabled
	mgn Linnt.	Disaulu
Test Range:	Low Limit: 0.10	High Limit: 8.0
	Unstable Limit:	Disabled
	CONTRACTOR FAILURE	
Endpoint:		Disabled
	Replicate Deviation:	Disabled
	Replicate Deviation: Activity:	None
	Replicate Deviation:	