

Order information

Ref. 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

2465-605, 6 x 5 mL

2450-604, 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 0.2 – 2.8 mg/dL

Conversion:

mmol/L = mg/dL x 0.096

***Customers should be aware that this protocol has been generated by a user of our assay on a Cobas Integra 400 analyzer and has not been validated by Stanbio Laboratory or the instrument manufacturer.**

Cobas Integra 400

GENERAL

Test:	Test ID:	8-634
	Short Name:	BOHB
	Long Name:	β -Hydroxybutyrate
	Test No.:	634
	Version No.:	5.0
	General Test Class:	Substrate
	Default Sample Type:	Serum
	Measurement Mode:	ABS
	Duration:	Standard
	Clot Detection:	Enabled

CALIBRATION

Calibrator Editor:	Selected Calibrator:	User Defined (87-6341-0)
	Short Name:	BOHST
	Long Name:	BOHB Standard
	Version No.:	5.0
Calibrator Definitions:	No. of Standards:	2
	Replicate:	Duplicate
	Sequence:	Cassette & Interval days: 0
	BOD Action:	Test Requested

DILUENT

Selected Pre-diluent:	None
Selected Diluent:	None

PIPETTING

Sample and Control Definitions:	Pre-dilution:	Disabled
Pipetting Parameter	Reaction Mode:	R1-S-SR
	Pipetting Depth:	Normal
Pipetting Volumes	S: Specimen:	4 μ l Water: 5 μ l
	R1: Reagent:	150 μ l Water: 5 μ l
	SR: Reagent:	25 μ l Water: 5 μ l

CASSETTE

Cassette	Cassette ID:	87-6340-0
	Short Name:	BOHB
	Long Name:	β -Hydroxybutyrate
	Version:	4.0
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:	R2 - Volume (mL): 6.38
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:	37
	Calculation Point Last:	64
	Standard Unit:	mmol/L
Calibration:	Curve Direction Check:	None
	Calculation Model:	Linear Regression

CHECKS

Reagent Range:	Low Limit:	Disabled
	High Limit:	Disabled
Test Range:	Low Limit: 0.10	High Limit: 8.0
Endpoint:	Unstable Limit:	Disabled
	Replicate Deviation:	Disabled
	Activity:	None
	Antigen Excess:	Disabled
	Lin Req Curve Range:	Disabled