Stanbio Laboratory β-Hydroxybutyrate LiquiColor[®] Preliminary*

Order information

Cat. No. Kit size 2440-058 R1 1 x 1 x 8.5 mL 50 mL + R2 Std. 1x 2460-605 6 x 5 ml Approximately 190 tests/kit.

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.

3 mL

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.

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

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 1 - Enzyme
- β-Hvdroxvbutvrate Dehydrogenase Diaphorase R2: Reagent 2 - Catalyst
- NAD INT Oxalate

Notes

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

Normal Range

Adults

0.02 - 0.27 mmol/L

Beckman Synchron[®] CX

Instrument setting

Temperature : 37°C

Chemistry Parameters	
Test Name: BHOB	User def. No: #
Chem Name: BHOB	
Reaction Endpoint	
Type: 2	
Units: mmol/L	No. of Calibrators: 2
Decimal: 2	Calibrator 1: 0.0
Reaction Dir.: Positive	Calibrator 2: 1.0
Calculation	Calibrator 3:
Factor: 0 Math Model: Linear	Collibrator 4
Cal Time Limit: 336hr	Calibrator 4: Calibrator 5:
Cal Time Limit. 550m	Calibrator 6:
Pri. Wavelength: 520	Sec. Wavelength: 700
1 II. Wavelengtii. 520	Sec. Wavelengin. 700
Reagent 1 [A]: 200 µL	[C] Volume 40 µL
Reagent 2 [B]:	Add Time: 624 sec.
Sample 3 µL	
Volume:	
Reagent	
Blank:	-
Start Read: 560 sec.	Reaction
End Read: 592 sec.	Start Read: 608 sec.
Usable Range: LL: 0.0 UL: 8.0	End read: 700 sec.
Error Detection Limits	
Reagent Blk L: -1.500	Reaction Low: -1.500
H: 1.500	High: 1.500
Substrate Depletion:	
Initial Rate: 99.999	Delta Abs.: 1.500
Multipoint Span -	
Calibration Par.	
Level Set Span	
Point	Back L H
1 (H20) 0.0 0.001	
2 (Std.) 1.0 0.001	0.0100 -0.100 0.500

#) Data entry by the user

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

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