# Stanbio Laboratory β-Hydroxybutyrate LiquiColor<sup>®</sup> Preliminary\*

#### Order information

Ref. No.	Kit size					
2440-058	R1 1 x	50 mL	+	R2	1 x 8	3.5 mL
				Std.	1 x	3 mL
2460-605	6 x	5 mL				

### Method

 $\beta$ -Hydroxybutyrate (D-3-hydroxybutyrate) in the presence of NAD is converted to acetoacetate and NADH at pH 8.5 by  $\beta$ -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  $2 - 8 \ ^\circ C$ 

## 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!

0.2 - 2.8 mg/dL

### **Normal Range**

Adults

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## Conversion:

 $mmol/L = mg/dL \ge 0.096$ 

Siemens	Vista <sup>®</sup>	500/1	500
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### User Defined Methods

Existing Methods: XBHB Available Channels: #								
Method Name: xBHB ID: #				Units	$H_{\rm M}$ ~ H_{\rm M} $H_{\rm M}$ $H_{\rm M}$ ~ H_{\rm M} $H_{\rm M}$ $H_{\rm M}$ ~ H_{\rm M}			
	Method Name. XBHB ID. # Omits. mg/dL Mode. Photometric						1 notometre	
EXECUTION								
Deli	verv							
Den	Time	Com	n.1	Remix	Cha	se	Mix	
D1	-21	$R1 \cdot 10$	)0 µ1	None	10	1	None	
S1	0	S· 2	.8 µ1	-	2.11	1	Gentle	
D2	82	R2: 1	5 ul 1	Moderate	- r 7 u	1	None	
D3	39	0.	11	None	0u	1	None	
S2	662	01	1	None	<u>η</u> υ 0 μ	1	None	
REA	GENT	0 P		110110	φ μ		rione	
KL/	Reagent	Tests	Life (hou	rs) V	Volume	On bo	ard	
1	R1	10	120		1190	Life (1	hrs)	
2	R1	10	120		1190	300	)	
3	R1	10	120		1190	500	,	
4	Empty	0	120		0			
5	Empty	0	0		0			
5	Empty	0	0		0			
7	Empty	0	0		0			
0	Empty	0	0		0			
0	Empty	0	0		0			
9	Empty	0	0		0			
10	Empty D2	20	200		622			
11	KZ Emetu	50	300		032			
12	Епріу	0			0			
		N N		51	1. 500			
Forn	nat: Rate	Measu	ring: 510	Blar	nking: 700	)		
P1	Time: 26	Diluti	on: 1.00	IOD	): -			
P2	Time: 396	Diluti	on: 1.00	FOI	D: -			
				FOI	): -			
				FOI	): -			
Erro	rs							
Cheo	ck: - Read	1:-21	Read 2:	-21 Trig	ger: -			
CAI	IBRATIO	N		- U	0			
Std.	Curve: LIN	EAR		Inte	rval (davs	): 30		
Calil	brator Level	s: 3		Cali	Calibrator Dilutions			
Leve	el Weight	Replic	ates Cre	eate Con	nponent	Dil.	Dil. Factor	
1	1.00	3	<u> </u>	.1	L3	SDIL	10.0	
2	1.00	3	T	2	L3	SDIL	2.0	
3	1.00	3	1		imum Ası	viration 4	2.0	
5	1.00	5		141111	1110111 730			
G 4 3								
SAN	ILLE	τ	11:-1	ЪĆ				
Seru	111 D	LOW	High	Kele	mence Rai	ige	-1. 2.01	
Assa D1-	iy Kange	0	46	LOW	: 0.2	Hig	gn: 2.81	
Asce	uia w <b>P</b> ange	0	16	Lon	w 0.2	LI:	ab. 2.81	
Assa	iy Kange	0	40	-	v. 0.2	п		

#) Data entry by the user

\*Customers should be aware that this protocol has been generated by a users of our assay on a Vista 500/1500 analyzers and has not been validated by Stanbio Laboratory or the instrument manufacturer.