Catalog No. 2440-058

For in vitro diagnostic use

Intended Use

The Stanbio β -Hydroxybutyrate Reagent is for the quantitative determination of β -Hydroxybutyrate in serum or plasma on the Sirrus[®] Chemistry System.

β-Hydroxybutyrate Reagent

Cat. No. 2440-058	1 x 50mL (R1), 1 x 8.5mL (R2)
	Approximately 170 Tests/Kit

Reagent Preparation

The reagents are supplied ready to use.

Reagent Storage and Stability

Stability	Storage	Claim
Unopened:	2 - 8°C, do not freeze	To Expiration
Opened:	On-board Sirrus [®]	21 days

Materials Needed but not Provided

Sirrus[®] Chemistry Analyzer

TDM/B-Hydroxybutyrate Tri-level Controls, Cat, No. 2460-605

Acceptable Specimens

Serum or plasma collected with EDTA, heparin, or sodium fluoride can be used in the assay.

Specimen Stability and Storage Requirements

Serum or plasma ß-hydroxybutyrate levels are stable at least one week if kept refrigerated (2-8 °C). Specimens should not be repeatedly frozen and thawed.

Acceptable Chemical Additives

EDTA, heparin or sodium fluoride.

Interfering Substances

Serum, or plasma collected by use of any heparin should be free of hemolysis. See the package insert for a list of non-interfering substances.

Programming Instructions

The analyzer is programmed for this assay by inputting the parameters located on the back of this application sheet.

Assay Procedure

- Add the R1 reagent to an R1 open channel reagent bottle then add the R2 reagent to its attached R2 reagent bottle.
- 2. Remove the reagent caps and place the reagents in its assigned position in the reagent tray.
- 3. Calibration is required after loading a new lot number of reagent. Use standard provided in kit.
- 4. Program and assay samples and controls as directed in the Sirrus[®] Operator's Manual.

Calibration

Calibrate the analyzer after loading a new lot of reagent, after maintenance and when quality control results fall outside established limits. Calibration factors are valid for <u>21 days</u>.

Quality Control

Assay at least two (2) levels of control at least once per day. Controls should also be assayed after calibration, instrument maintenance and after loading a new lot of reagent.

Do not report patient results from any run where control recoveries fall outside the laboratory's established limits. Repeat the run if control results are unacceptable. If problems persist, examine the analyzer to determine the cause or repeat the run using fresh controls and if needed fresh reagent. For technical service, contact Stanbio Laboratory Technical Service Department at 800.531.5535.

Calculations

All calculations are performed by the analyzer.

Limitations

Use only serum, or plasma collected with EDTA, heparin or sodium fluoride for this assay.

Usable Range

Linear from 0 to 4.5 mmol/L. If the auto re-run feature is OFF then select a 10X dilution and select a re-run. The result is automatically calculated by the dilution factor.

Expected Values^{1,2}

Group	Reference Range
Normal Range	0.02-0.27 mmol/L
Abnormal (possible ketoacidosis)	>2.0 mmol/L

Use these ranges only as guides. Each laboratory should establish its own reference ranges.

For additional information please refer to the Sirrus[®] Operator's Manual and the Stanbio β -hydroxybutyrate package insert.

Item No. Item Name

Other

** BHOB

Page: 1					
Data Information					
Units	mmol/L	-			
Decimals	2				
Analysis					
Туре	END				
Main W.Length1	505				
Main W.Length2	700				
Method	B-Hydr	oxybutyr	ate		
Corr.					
Slope Inter					
Y= [1.000] X +					
[0.000]					
Calibration					
Туре	Linear	1			
Standard	*		Stability	y: 21 days	
Normal Range	Male		Female		
	Low	High	Low	High	
Serum	0.02**	0.27**	0.02**	0.27**	
Urine					
Plasma	0.02**	0.27**	0.02**	0.27**	
CSF					
Dialysis					

Dense 0					
Page: 2					
Aspiration					
Kind:		Double			
Sample		3 μL			
Reagent1 Vo	ol	200	μL Stat	pility: 21 days	
Reagent2		50 µL			
Third Mix.		OFF			
O R1-Blank		Water -	Blank		
Factor	MAX	1			
	MIN	10			
	CV%	3			
Monitor					
O Level Poir	nt	1			
Span		3.000			
Data Process					
Read	Start	End	Absorbance	e Limit	
Main 3	35	45	Low	0.000	
Sub -			High	1.600	
Factor					
Blank Correcti	ion:	1			
Endpoint Limit	t:	1.000			
Linear Check	(%):	0			
Dilution					
Diluent		100:Dil2			
Prozone Check					
S	Start	End	Limit %	L/H	
First					
Second					

Page 3: Auto Rerun S	<u>SW</u>	0					
On/Off: ON							
	JII/OII.		UFF		UN		
Serum			Lower				
				4.0	50		
Plasma	1			4 !	50		
CSF	•						
Dialvsi	3						
Other							
Bottle Size (r	nL)						
24 Ite	ms		36 Items				
Reagent1	0	0		ent1	32.5		
Reagent2 R1	0	0		ent2 R1	21^		
Reagent2 R2	0		Reag	Reagent2 R2 15			
Auto Rerun Condition (Absorbance)							
Lower: ON							
Higher: C			ON				
Prozone Range: C			F				
Panic Range							
	<u> </u>	Male			Female		
0	Above	B	elow	Above	Below		
Serum	2.00**	0	.00^^	2.00**	0.00^*		
Urine				<u> </u>			
Dialvaia							
Other		_					
Oulei				I			

* Enter calibrator value

** User defined

^ User defined based on # of tests per bottle

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