# **ß-Hydroxybutyrate (BHB) Application QuidelOrtho Vitros® XT 7600 Integrated System, Vitros® 5600 Integrated System and Vitros® 4600 Chemistry System**

Catalog No. 2440058

Intended for the Quantitative Determination of Beta-Hydroxybutyrate in Human Serum or Plasma

For In Vitro Diagnostic Use Only

#### Intended Use

The information provided in this application sheet is intended as a supplement to the package insert. Refer to the package insert for information on intended use, reagent storage, reagent preparation, specimen collection, specimen storage, quality control and additional performance data. For package inserts, visit www.quidelortho.com > Resources > Technical Documents > MicroTip Partnership Assays (MPAs)

# Ordering Information

Please place your order with QuidelOrtho. Ordering information available at www.quidelortho.com

Item	Reference Number	Configuration
B-Hydroxybutyr-240t/kit	2440058	R1: 1 x 50 mL
(Includes standard cals)		R2: 1 x 8.5 mL
		Std.: 1 x 3 mL
B-Hydroxybutyr 3 Level Control	2460605	Levels 1, 2 & 3:
		2 x 5 mL/each
B-Hydroxybutyr 2 Level Control	2465605	Levels 1 & 2
		3 x 5mL/each
B-Hydroxybutyr Linearity	2450604	Levels 1-6;
		6 x 4mL

Technical Support Information Contact QuidelOrtho for technical support. Contact information available at

www.quidelortho.com

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## Reagent Pack Storage

Reagents are stable until the labeled expiration date at 2-8°C when stored in the original container.

Reagents stored in UDxx reagent packs onboard the analyzer are stable for 56 days.

Reagents, controls and standards are supplied liquid ready-to-use.

It is recommended that the reagents be split into 3 UDxx reagent packs containing a sufficient volume for a 30 day period of testing, based on anticipated utilization. The recommended fill volumes for each of the 3 UDxx reagent packs are as followed:

R1 (mL) in UDxx/A	R2 (mL) in UDxx/B	Tests/pack	
14.7	2.8	80	

3 UDxx reagent packs would be able to perform approximately 240 tests

**Note:** Once the individual UDxx pack number is selected for use during the protocol programming, it is the only UDxx pack number to use for this protocol.

## **Special Reagent Packs for User Defined Assays**

(Please order from QuidelOrtho)

Reference Number	Description	Quantity
680 2246	UD01 Packs (Empty)	1 BOX/6PKS
680 2247	UD02 Packs (Empty)	1 BOX/6PKS
680 2248	UD03 Packs (Empty)	1 BOX/6PKS
680 2249	UD04 Packs (Empty)	1 BOX/6PKS
680 2250	UD05 Packs (Empty)	1 BOX/6PKS
680 2251	UD06 Packs (Empty)	1 BOX/6PKS
680 2252	UD07 Packs (Empty)	1 BOX/6PKS
680 2253	UD08 Packs (Empty)	1 BOX/6PKS
680 2254	UD09 Packs (Empty)	1 BOX/6PKS
680 2255	UD10 Packs (Empty)	1 BOX/6PKS
684 4449	UD11 Packs (Empty)	1 BOX/6PKS
684 4448	UD12 Packs (Empty)	1 BOX/6PKS
684 4445	UD13 Packs (Empty)	1 BOX/6PKS
684 4442	UD14 Packs (Empty)	1 BOX/6PKS
684 4447	UD15 Packs (Empty)	1 BOX/6PKS
684 4444	UD16 Packs (Empty)	1 BOX/6PKS
684 4441	UD17 Packs (Empty)	1 BOX/6PKS
684 4446	UD18 Packs (Empty)	1 BOX/6PKS
684 4443	UD19 Packs (Empty)	1 BOX/6PKS
684 4440	UD20 Packs (Empty)	1 BOX/6PKS
680 2256	UDDL1 Packs (Empty)	1 BOX/6PKS
680 2257	UDDL2 Packs (Empty)	1 BOX/6PKS

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# Out of Range Codes

A high analyte sample can produce an absorbance within the Vitros® System photometer range but above the assay measuring range resulting in an OR code.

A very high analyte sample can produce an absorbance outside the Vitros<sup>®</sup> System photometer range resulting in a CB code.

For either the OR or CB codes, dilute the sample 3X with reagent grade water or saline, and retest. This may be accomplished by off-line manual dilution or an operator requested onboard dilution using either Vitros Chemistry Products FS Diluent Pack 2 (BSA/Saline) or Vitros® Chemistry Products FS Diluent Pack 3 (Specialty Diluent/Water). Multiply the final result by 3 if off-line manual dilution is used and the manual dilution factor was not entered while programming the sample.

# Calibration Interval

It is recommended that recalibration occur after reagent pack change, after calibrator lot change, after performance of monthly instrument maintenance and as required following quality control procedure. The calibration interval is 45 days.

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# ß-Hydroxybutyrate LiquiColor® Assay QuidelOrtho Vitros® XT 7600 Integrated System, Vitros® 5600 Integrated System and Vitros® 4600 Chemistry System Parameters

Full Assay Name: <u>_ß-Hydro</u>	oxybutyrate	
Short Assay Name: <u>BHB</u>		Fluid Type: <u>Serum</u>
Assay Model Type: End Po	int	Template:*EPT R1-s-R2
Cal Model Type: <u>Linear</u>		Calibrator Bottles: 2 Reagent Reps per Cal : 3
Reagent Lot Informat	tion	Edit Dilution Parameters
On-Board Stability: <u>56</u> Days		Diluent: _Saline or DI Water Standard Dilution Factor: _1.0_
Reagent Lot Num. <u>Kit Lot</u>		Reflex Dilution: Off Dilution Factor: 3.0
		(Refer to Out Of Range Codes Section above)
Shelf Exp. Date: <u>Kit Exp</u>	<u>Date</u>	Reduction Factor:1.0_
		Edit Result Parameters
Units: <u>mmol/L</u>		Reference Interval: <u>0.02</u> to <u>0.27</u>
Significant Digits: <u>3</u>	Precision Digits: 2	Supplementary: <u>0.00</u> to <u>90000000</u>
User Adjusted Parameters		Reportable Range: <u>0.02</u> to <u>6.00</u>
Slope: <u>1.0</u>	Intercept: 0.0	Edit Additional Parameters
Cuve Tip Exp Time: 35	Temp Sens : No	Initial Abs. Limits:0.200_ to _3.500_
		Second Abs. Limits: -0.200 to 3.500

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# $\hbox{$\beta$-Hydroxybutyrate $LiquiColor}^{\circledR}$ Assay$

# QuidelOrtho Vitros® XT 7600 Integrated System, Vitros® 5600 Integrated System and Vitros® 4600 Chemistry System Parameters,

## **Edit Protocol Parameters**

	Step	Volume	Pack ID	Seconds	Wavelength
1.	Reagent	143.3 uL	UDxx /A		
2.	Incubation			0.00	
3.	Sample	4.0 uL			
4.	Incubation			280.25	
5.	Read				510nm
6.	Incubation			14.25	
7.	Reagent	24.0 uL	UD xx/B		
8.	Incubation			313.50	
9.	Read				510 nm

## **Edit Calibration Parameters**

Bottle #	Dil Factor	Cal Rep Resp Range	Calibrator Lot: <u>Cal Kit lot</u>
1	1.0	0.20000	Cal value: 0.00 (reagent grade water or saline)
2	1.0	0.20000	Cal Value: 1.00 (provided 1.00 mmol/L standard)

### **Edit Additional Calibration Parameters**

Monotonicity: <u>Increase</u>

Max Resp High:3.00Min. Resp. High:3.00Cal Fit Goodness Limit:0.990Max Resp. Low:-3.00Min Resp. Low:-3.00Calibration Interval:45 Days

### **Edit Triple Read Parameters**

	Reportable Conc.	Triple Read Limit
Reportable Min.:	0.02	0.33
Critical Conc.:	3.01	11.0%
Reportable Max.:	6.00	11.0%

Performance characteristics for the Vitros® 5600 Integrated System are applicable to the Vitros® XT 7600 Integrated System.

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