**STANBIO REAGENT APPLICATION (VALIDATED)** **COBAS MIRA CHEMISTRY SYSTEMS***
**Procedure No. 2440** ***Roche Diagnostic Systems**
**B-HYDROXYBUTYRATE LIQUICOLOR®** **Nutley, NJ**

**PLEASE REFER TO THE PACKAGE INSERT FOR ADDITIONAL INFORMATION REGARDING THIS REAGENT.**

**Package Sizes Available**
Catalog No. 2440-058 (1 x 58mL)

**Reagent Preparation/Stability**
Reagents are supplied ready to use. **DO NOT USE CLEANER IN APPLICATION.**
Reagents are stable stored at 2-8°C until expiration date on their respective labeling. **Once opened, contamination must be avoided**.

**Linearity**
When perform as directed, this method is linear to 4.5 mmol/L.

**MIRA INSTRUMENT SETTINGS**

**GENERAL**

| | |
|---|---|
| Measurement Mode: | Absorb. (1) |
| Reaction Mode: | R – S-SR1 (1) |
| Calibration Mode: | Slope Avg. (1) |
| Reagent Blank: | Reag/Dil (2) |
| Cleaner: | No (1) |
| Wavelength: | 500 nm (2) |
| Decimal Position: | 2 |
| Unit: | mmol/l (21) |

**ANALYSIS**

| | |
|---|---|
| Sample Dil.: | Name: H2O (00) |
| Post. Dil.: | Factor: No (Space) |
| | Conc. Factor: No (Space) |
| Sample: | Cycle: (1) |
| Volume: | uL (3.0) |
| Diluent: | uL (20.0) |
| Reagent: | Cycle: (1) |
| Volume: | uL (105) |
| Start R1 Cycle: | 2 |
| Volume: | uL (18) |
| Dilution Name: | H2O |
| Volume: | uL (60) |

**CALCULATION**

| | |
|---|---|
| Sample Limit: | No (Space) |
| Reaction Direction: | Increase (1) |
| Check: | On (1) |
| Factor: | 1.000 |
| Offset: | 0.000 |
| Test Range: | Low (0) |
| | High (6) |
| Normal Range (37°C): | Low (.9) |
| | High: (6) |
| Number of Steps: | 1 |
| Calc. Step A: | Endpoint (3) |
| Readings: | First: 1 |
| | Last: 12 |
| Reaction: | Limit: No |

**CALIBRATION**

| | |
|---|---|
| Calib. Interval: | On Request (3) |
| Reagent Range: | Low: No |
| | High: No |
| Blank Range: | Low: No |
| | High: No |
| Calibrator: | Cup Position (#) |
| Cal-1: | + |
| Replicate: | Triplicate (3) |
| Deviation: | % (10) |

**CONTROL**

| | |
|---|---|
| CS1 | Pos/Low/Assign/High (#) |
| CS2 | Pos/Low/Assign/High (#) |
| CS3 | Pos/Low/Assign/High (#) |

\# User Defined

* The Factor must be checked by a calibrator serum or control

**MIRA S INSTRUMENT SETTINGS**

**GENERAL**

| | |
|---|---|
| Measurement Mode: | Absorb (1) |
| Reaction Mode: | R – S-SR1 (1) |
| Calibration Mode: | Slope Avg. (1) |
| Reagent Blank: | Reag/Dil (2) |
| Cleaner: | No (1) |
| Wavelength: | 500 nm (2) |
| Decimal Position: | 2 |
| Unit: | mmol/l (21) |

**ANALYSIS**

| | |
|---|---|
| Post Dil.: | Factor: No (Space) |
| | Conc. Factor: No (Space) |
| Sample: | Cycle: (1) |
| | Volume: uL (3.0) |
| Dilution: | Name: H2O (00) |
| | Volume: uL (20.0) |
| Reagent: | Cycle: (1) |
| | Volume: uL (105) |
| Start R1 Cycle: | 2 |
| Volume: | uL (18) |
| Dilution Name: | H2O |
| Volume: | uL (60) |

**CALCULATION**

| | |
|---|---|
| Sample Limit: | No (Space) |
| Reaction Direction: | Increase (1) |
| Check: | On (1) |
| Factor: | 1.000 |
| Offset: | 0.000 |
| Test Range: | Low (0) |
| | High (6) |
| Normal Range (37°C): | Low (.9) |
| | High: (6) |
| Number of Steps: | 1 |
| Calc. Step A: | Endpoint (3) |
| Readings: | First: 1 |
| | Last: 12 |
| Reaction: | Limit: No |

**CALIBRATION**

| | |
|---|---|
| Calib. Interval: | On Request (3) |
| Reagent Range: | Low: No |
| | High: No |
| Blank Range: | Low: No |
| | High: No |
| Standard: | Position (#) |
| | Std-1: + |
| | Std-2: No (Space) |
| | Std.-3: No (Space) |
| Replicate: | Triplicate (3) |
| Deviation: | % (10) |

**CONTROL**

| | |
|---|---|
| CS1 | Pos/Low/Assign/High (#) |
| CS2 | Pos/Low/Assign/High (#) |
| CS3 | Pos/Low/Assign/High (#) |

\# User Defined

* The Factor must be checked by a calibrator serum or control

**Expected Values**
0.02 to 0.27 mmol/l
Due to geographic or instrument variation, it is recommended that each laboratory establish the normal range for its population.

**FOR TECHNICAL ASSISTANCE CALL TOLL-FREE 1-800-531-5535 OR (830) 249-0772**

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