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Yale - Beta hydroxybutyrate (Cobas)

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Protocol status: Working

We use this protocol and it's working

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Keywords: Beta hydroxybutyrate, beta hydroxybutyrate, cobra, serum


Abstract

Summary:

Procedure used to determine the concentration of β -Hydroxybutyrate in blood, serum, and plasma. β -Hydroxybutyrate is measured by the oxidation to acetoacetate, followed by reduction of an indicator dye (monitored at 505 nm) by NADH.

Materials

MATERIALS

 β -Hydroxybutyrate Controls **Pointe Scientific Inc. Catalog #H7587-CTL**

 β -Hydroxybutyrate Reagent (test kit includes standard). **Pointe Scientific Inc. Catalog #H7587-58**

Reagent Preparation:

β -Hydroxybutyrate Controls: As supplied by vendor

β -Hydroxybutyrate Reagent and Standard: As supplied by vendor

Troubleshooting

Before start

Analysis by automated system Cobas Mira Plus.



- 1 Calibrate Cobas for β -Hydroxybutyrate by running a β -Hydroxybutyrate standard and three β -Hydroxybutyrate controls.
- 2 Sample handling as performed by the Cobas Mira Plus.
 - a) Pipette 3 μ L of sample into cuvette.
 - b) Add 105 μ L of β -Hydroxybutyrate Reagent.
 - c) Mixture is incubated at 37°C for 10 minutes.
 - d) Absorbance is measured at 505 nm.