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

- β-Hydroxybutyrate Controls: As supplied by vendor
- β-Hydroxybutyrate Reagent and Standard: As supplied by vendor

BEFORE START INSTRUCTIONS

Analysis by automated system Cobas Mira Plus.
Calibrate Cobas for β-Hydroxybutyrate by running a β-Hydroxybutyrate standard and three β-Hydroxybutyrate controls.

Sample handling as performed by the Cobas Mira Plus.
   a) Pipette 3 μL of sample into cuvette.
   b) Add 105μL of β-Hydroxybutyrate Reagent.
   c) Mixture is incubated at 37°C for 10 minutes.
   d) Absorbance is measured at 505 nm.