CREATIVE BIOMART®
Assay Kit

Ketone Body Assay Kit

Product Information

Cat

Kit-2506

Cat.No. Kit-2506

Product Overview

Ketone bodies (acetoacetic acid and 3-hydroxybutyric acid) are produced in the liver mainly from oxidation of fatty acids, and are normally present at low concentrations in urine and blood. Increased ketone concentrations in the blood may lead to metabolic acidosis, which has been associated with diabetes, childhood hypo-glycaemia, growth hormone deficiency, alcohol or salicylate intoxication and inborn errors of metabolism. Simple, direct and automation-ready procedures for measuring acetoacetic acid (AcAc) and 3-hydroxybutyric acid (BOH) are very desirable. ketone body assay is based on 3-hydroxybutyrate dehydrogenase catalyzed reactions, in which the change in NADH absorbance, measured at 340nm, is directly related to the AcAc and BOH concentrations.

Storage

-20°C

Shipping

On Ice

Size

200 tests

Detection method OD340nm

Compatible Sample Types

Serum, plasma, urine etc

Features & Benefits

Sensitive and accurate. Uses 10 µL sample. Linear detection range of 0.12 to 8 mM for each ketone body in 96-well plate assay.

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Convenient. The procedure involves adding a single working reagent, and reading the optical density at room temperature.
High-throughput. Can be automated as a high-throughput 96-well plate assay for many samples per day.

Assay time
30 min
Sensitivity
0.12 mM

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