abcam

Product datasheet

B Hydroxybutyrate (beta HB) Assay Kit (Fluorometric) ab180876

3 References 2 Images

Overview

Detection method Fluorescent

Sample type Milk, Urine, Serum, Plasma, Other biological fluids

Assay type Quantitative

Sensitivity < 4 µM

Species reactivity Reacts with: Mammals, Other species

Product overview Abcam's β-Hydroxybutyrate Assay Kit (Fluorometric) (ab180876) offers simplicity, enhanced

sensitivity, and can be adapted to high-throughput applications. The assay is based on enzymatic oxidation of β -HB that results in generation of fluorescent signal (Ex/Em = 535/587 nm) which is directly proportional to the amount of β -HB. The kit offers an excellent alternative for measurement of β -HB when biological sample quantities are limited or subketogenic levels are suspected. The

assay can detect β -Hydroxybutyrate as low as 4 μ M in a variety of biological samples.

Notes This product is manufactured by BioVision, an Abcam company and was previously called K651

PicoProbe™ β-Hydroxybutyrate Fluorometric Assay Kit. K651-100 is the same size as the 100

test size of ab180876.

β-Hydroxybutyrate (β-HB) is the most abundant of the ketone bodies (\sim 78% of total ketone bodies in blood). Ketoacidosis (high concentrations of the ketone bodies) can be caused by a variety of conditions, such as diabetes, alcoholism and severe starvation. Ketoacidosis can be fatal if not treated. Additionally, ketogenic diets can increase the concentration of ketone bodies slightly in

healthy individuals.

Platform Microplate reader

Properties

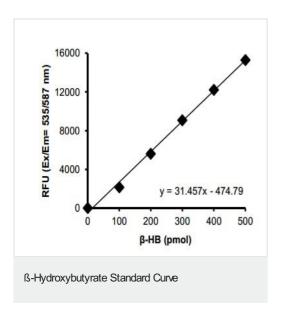
Storage instructions Store at -20°C. Please refer to protocols.

Components	100 tests
β-Hydroxybutyrate Assay Buffer	1 x 25ml

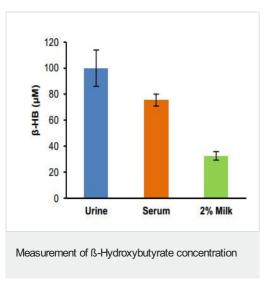
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Components	100 tests
β-Hydroxybutyrate Enzyme Mix (Lyophilized)	1 vial
β-Hydroxybutyrate Standard (Lyophilized)	1 vial
β-Hydroxybutyrate Substrate Mix (Lyophilized)	1 vial
PicoProbe	1 x 400µl

Images



 $\beta\textsc{-Hydroxybutyrate}$ Standard Curve. Assay performed using the kit protocol.



Measurement of β -Hydroxybutyrate concentration in human urine (2.5 μ L), serum (2.5 μ L) & 2% Milk (5 μ L). All samples were deproteinized using 10 kDa Spin Column & spiked with known amount of β -Hydroxybutyrate (400 pmol). Assays were performed following the kit protocol.

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