Beta-hydroxybutyrate Assay

A plate based colorimetric assay to quantify β-hydroxybutyrate in biological samples as low as 10 µM.

β-hydroxybutyrate (BHB) is a ketone body produced during periods of prolonged fasting, low carbohydrate intake, or intense exercise. BHB serves as an alternative energy source for various tissues, including brain, heart, and skeletal muscle, when glucose availability is limited. BHB also acts as a signaling molecule, affecting gene expression, oxidative stress, inflammation and other cellular processes. AkrivisBio's β-hydroxybutyrate assay is a simple, sensitive method of determining BHB content in samples as low as 10 µM. In the assay, BHB is oxidized to acetoacetate forming NADH, which then reduces a nearly colorless tetrazolium to a highly colored formazan measured at OD 450 nm. The measurement of β-hydroxybutyrate levels is often used to assess ketosis, a metabolic state characterized by increased production and utilization of ketone bodies.

Ordering Information

Order Online »

AKR-MA-0132	100 wells

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Colorimetric detection
Species Reactivity	Species independent
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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