CREATIVE BIOMART®
Assay Kit

Bile Acid Assay Kit

Product Information

Cat.No. Kit-2070

Product Overview

Bile Acid Assay Kit provides a convenient fluorimetric means to measure total bile acids in biological samples. In the assay, 3a- hydroxysteroid dehydrogenase reacts with all twelve bile acids, converting NAD to NADH, which reduces a probe to a highly fluorescent product. The resulting fluorescence intensity (λexc/em = 530/585 nm) is linear to the bile acid concentration in the sample.

Size

100 tests

Description

Twelve different types of bile acids are typically found in mammals, among them two primary types are cholic acid and chenodeoxycholic acid. These can be dehydroxylated into secondary bile acids. Finally, these four can be conjugated to either taurine or glycine creating 8 different conjugated bile acids. Bile acid levels in feces, blood, urine, and bile can be used as markers for various diseases such as hyperlipidemia, cholestasis, gall stones, colon cancer, etc. Bile acids also exist in a sulfate salt form known as bile acid-sulfates. Sulfation of bile acids increases their solubility and decreases intestinal absorption, thereby enhancing fecal and urinary excretion. This assay does not measure bile acid-sulfates, and measures only the twelve non-sulfated bile acids.

Applications

For quantitative determination of total bile acids and evaluation of drug effects on bile acid metabolism.

Storage

The kit is shipped on ice. Store all reagents at -20°C. Shelf life of 6 months after receipt.

Kit Components

Assay Buffer: 10 mL Enzyme A: 120 µLNAD Solution: 1 mL Enzyme B: 120 µLProbe: 750 µL Standard: 120 µL

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Detection method FL530/585nm

Compatible Sample Types

Serum, plasma, urine and other biological samples.

Features & Benefits

• Safe. Non-radioactive assay.• Sensitive and accurate. Linear detection range of 1 - 150 μM bile acids. • Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Can bereadily automated on HTS liquid handling systems for processing thousands of samples per day.

Assay time

20 min

Sensitivity

Detection Limit: 1 uM

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