CREATIVE BIOMART®
Assay Kit

Phenylalanine Assay Kit

Product Information

Cat

Kit-2516

Cat.No. Kit-2516

Product Overview

L-Phenylalanine is one of the twenty common amino acids and an important precursor for several key signal molecules such as dopamine, norepinephrine, epinephrine, and the skin pigment melanin. It is found naturally in the breast milk of mammals, and used as nutritional supplements in food and drink products. The genetic disorder phenylketonuria is the inability to metabolize phenylalanine. Individuals with this disorder are known as "phenylketonurics". Individuals who cannot metabolize phenylalanine must monitor their intake of protein to control the buildup of phenylalanine. The L-Phenylalanine Assay Kit provides a convenient fluorimetric means to measure L-phenylalanine in biological samples. In the assay, L-phenylalanine is oxidized by phenylalanine dehydrogenase, producing NADH, which reduces a fluorescent dye to a highly fluorescent product. The resulting fluorescence intensity (λex/em = 530/585 nm) is linear to the L-phenylalanine concentration in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method FL530/595nm

Compatible Sample Types

Serum, urine etc

Features & Benefits

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Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

Phenylalanine Assay Kit

Safe. Non-radioactive assay.
Sensitive and accurate. Linear detection range of 2 - 300 μM L-phenylalanine.
Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

Assay time
30 min
Sensitivity
2 μM

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