CREATIVE BIOMART®
Assay Kit

Alkaline Phosphatase Assay Kit

Product Information

Cat

Kit-2471

Cat.No. Kit-2471

Product Overview

Alkaline phosphatase (ALP) catalyzes the hydrolysis of phosphate esters in an alkaline environment, resulting in the formation of an organic radical and inorganic phosphate. In mammals, this enzyme is found mainly in the liver and bones. Marked increase in serum ALP levels, a disease known as hyperalkalinephosphatasemia, has been associated with malignant biliary obstruction, primary biliary cirrhosis, primary sclerosing cholangitis, hepatic lymphoma and sarcoidosis. Simple, direct and automation-ready procedures for measuring ALP activity in serum are becoming popular in Research and Drug Discovery. Alkaline Phosphatase Assay Kit is designed to measure ALP activity directly in biological samples without pretreatment. The improved method utilizes p-nitrophenyl phosphate that is hydrolyzed by ALP into a yellow colored product (maximal absorbance at 405nm). The rate of the reaction is directly proportional to the enzyme activity.

Storage

4, -20°C

Shipping

RT

Size

250 tests

Detection method OD405nm

Compatible Sample Types

Serum, plasma etc

Features & Benefits

High sensitivity and wide linear range. Use 5 µL serum or plasma sample. The detection limit is 2 U/L,

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Alkaline Phosphatase Assay Kit

linear up to 800 U/L.
Homogeneous and simple procedure. Simple "mix-and-measure" procedure allows reliable quantitation of ALP activity within 5 minutes.
Robust and amenable to HTS. All reagents are compatible with high-throughput liquid handling instruments.

Assay time
4 min
Sensitivity
2 U/L

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