CREATIVE BIOMART®
Assay Kit

Urea Colorimetric Assay Kit

Product Information

Cat

Kit-2225

Cat.No. Kit-2225

Product Overview

Urea is a waste product which produced in the liver, dissolved in blood (in a concentration of 2.5 - 7.5 mM), and secreted by the kidneys. Urea also plays a very important role in protein catabolism, removal of toxic ammonia from the body, and the countercurrent system which allows for reabsorption of water and critical ions in the nephrons. Urea determination is very useful for the medical clinician to assess kidney and other organs function of patients. Urea Assay Kit provides a rapid, simple, sensitive, and reliable for measurement of Urea level in a variety of samples such as serum, plasma, and urine, etc. In the assay, Urea reacts as substrate with compounds in the presence of enzymes to form a product that reacts with the OxiRed probe to generate color (λmax=570nm). The optical density of produced color has a direct relationship with Urea concentration in the solution. The kit can detect as low as 0.5 nmol per well or 10 μM of Urea. The assay is also suitable for high throughput studies.

Applications

The kit can detect as low as 0.5 nmol per well or 10 μM of Urea.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Urea Assay Buffer; OxiRed Probe in DMSO; Enzyme Mix (lyophilized); Developer; Converting Enzyme;

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Urea Colorimetric Assay Kit

Urea Standard (100mM)

Target Species

Mammalian

Detection method Absorbance (570 nm)

Features & Benefits

Simple procedure; takes ~ 1 hour;
Fast and convenient;
The assay is sensitive, stable and high-throughput adaptable.

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