CREATIVE BIOMART®
Assay Kit

DNA Assay Kit

Product Information

Cat.No.

Kit-0295

Product Overview

DNA Assay Kit is a fluorimetric quantitation of nanogram DNA.

Description

DNA quantitation is a common practice in molecular biology. Very often DNA is available in minute quantities and the traditional UV 260 nm absorbance method requires microgram quantities for reliable results. Accurate determination of DNA concentration, especially when DNA is present at low concentrations, is crucial for reproducible results in sequencing, cloning, transfection and DNA labeling.Simple, direct and automation-ready procedures for measuring DNA concentration are very desirable. This DNA assay kit is designed to accurately measure nanogram quantities of plasmid DNA, cDNA, DNA following polymerase chain reaction and DNA eluted from gels. The improved method utilizes Hoechst dye that binds specifically with double-stranded DNA. The fluorescence intensity, measured at 45 0nm (λexc = 350 nm), is directly proportional to the DNA concentration in the sample. The optimized formulation substantially reduces interference by substances in the raw samples.

Applications

Direct Assays: plasmid DNA, genomic DNA, cDNA, DNA following polymerase chain reaction, and DNA extracted from gel and other matrices.

Usage

For research use only (RUO)

Storage

Store DNA Standard at -20°C. Store Reagent at 4°C.

Kit Components

Reagent 50 mLStandard: calf thymus DNA (10 µg/mL). 1 mL

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Detection method Fluorometric

Features & Benefits

Sensitive and accurate. Linear detection range 2 ng to 40 ng (100 – 2,000 ng/mL) calf thymus DNA in 96-well plate assay.Simple and high-throughput. The "mix-and-read" procedure involves addition of a single working reagent and reading the fluorescence intensity. Can be readily automated as a high-throughput assay for thousands of samples per day.Low interference. RNA, salt (up to 3M NaCl), detergent (< 0.01% SDS) and common DNA extraction buffer do not interfere in the assay.

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