CREATIVE BIOMART®
Assay Kit

# Protein Assay Kit

## Product Information

**Cat.No.** Kit-0728

**Product Overview**

Protein Assay Kit is a bradford colorimetric protein determination at 595 nm.

**Description**

The protein is known as the "building blocks of life" and is one of the most important macromolecules in life science. Proteins are polypeptides made up of amino acids and play various key roles in all aspects of biology.Protein quantitation is a very common practice for life scientists. Simple, direct and automation-ready procedures for measuring protein concentration are very desirable. Protein Assay Kit is based on an improved Coomassie Blue G method. The dye forms a blue complex specifically with protein, and the intensity of color, measured at 595nm, is directly proportional to the protein concentration in the sample. The optimized formulation substantially reduces interference by substances in the raw samples and exhibits increased sensitivity towards peptides.

**Applications**

Direct Assays: total protein concentration.

**Usage**

For research use only (RUO)

**Storage**

Store the reagent at 4°C and standard at -20°C, respectively. Shelf life: 12 months after receipt.

**Kit Components**

Reagent: 5 x concentrate 20 mLProtein standard: 1.0 mg/mL BSA 1 mL

**Detection method** Colorimetric

**Features & Benefits**

Sensitive and accurate: Use 10 µL samples. Detection range 0.06 – 1.0 mg /mL protein in 96-well plate assay.Simple and high-throughput: The "mix-and-read" procedure involves addition of a single working reagent and reading the optical density. Can be readily automated as a high-throughput

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assay in 96-well plates for thousands of samples per day.Low interference: Glucose, Tris, vitamins, and amino acids, DNA, RNA, salts, EDTA (< 12 mM), phenol (< 50 mM), urea (< 0.6 M), Triton (< 0.1%) and SDS (< 0.1% SDS) do not interfere in the assay.Versatility: assays can be executed in 96-well plate or cuvet.

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