

Tryptophan Assay Kit

Cat. No. Kit-2513 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

TRYPTOPHAN is one of the eight essential amino acids that the body cannot synthesize and must be obtained through diet. Tryptophan is the biochemical precursor to the neurotransmitter serotonin, which has important roles in biological processes such as regulation of appetite, sleep, and mood. Imbalances of serotonin have been linked to numerous mental health disorders. Tryptophan is also a precursor to the neurotransmitter melatonin, which is heavily involved in regulating the body's sleep cycle. Tryptophan Assay uses a coupled enzymatic reaction to determine the tryptophan concentration of a sample with the addition of a single working reagent. The fluorescence intensity at $\lambda_{ex/em} = 530/585 \text{ nm}$ is directly proportional to tryptophan concentration in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 wells

Detection method

FL530/585nm

Compatible Sample Types

Serum

Features & Benefits

Fast and sensitive. Use of 10 μ sample. Linear detection range from 10 μ M to 400 μ M tryptophan in 96-well plate assay.

Convenient. The procedure involves adding a single working reagent, and reading the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

fluorescence after 30 minutes. Room temperature assay. No 37°C heater is needed.
High-throughput. "Add-mix-read" type assay. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

Assay time	30 min
Sensitivity	10 μ M

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