

## Phenylalanine Fluorometric Assay Kit

### Product Information

#### Cat

Kit-2247

#### Cat.No.

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### Product Overview

L-Phenylalanine (PHE) is an electrically-neutral amino acid, one of the twenty common and one of the three aromatic amino acids used to biochemically form proteins. Phenylalanine uses the same active transport channel as tryptophan to cross the blood-brain barrier, and, in large quantities, interferes with the production of serotonin. Errors in PHE metabolism lead to phenylketonuria or PKU which can have dire consequences. Phenylalanine Assay Kit provides a quick, simple, accurate method for quantifying PHE in biological samples. In the assay, PHE is reductively deaminated with the simultaneous formation of NADH which reacts with our fluorescent probe to generate fluorescence at Ex/Em=535/587 nm. The assay is linear in the range from 0.1 to 1.0 nmol (2-20  $\mu$ M) of Phenylalanine.

### Applications

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### Storage

-20°C

### Shipping

Gel Pack

### Size

100 assays

### Kit Components

Phenylalanine Assay Buffer; Tyrosinase; Enzyme Mix; Developer; Phenylalanine Standard (10.0  $\mu$ mol)



## Phenylalanine Fluorometric Assay Kit

### Target Species

Mammalian

**Detection method** Fluorescence (Ex/Em535/587 nm)

### Features & Benefits

Simple procedure; takes less than ~30 minutes; Fast and convenient

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