Phenylalanine Assay Kit

Cat. No. Kit-2080 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	L-Phenylalanine Assay Kit provides a convenient fluorimetric means to measure L-phenylalanine in biological samples. In the assay, L-phenylalanine is oxidized by phenylalanine dehydrogenase, producing NADH, which reduces a fluorescent dye to a highly fluorescent product. The resulting fluorescence intensity (λexc/em = 530/585 nm) is linear to the L-phenylalanine concentration in the sample.
Size	100 tests
Description	L-Phenylalanine is one of the twenty common amino acids and an important precursor for several key signal molecules such as dopamine, norepinephrine, epinephrine, and the skin pigment melanin. It is found naturally in the breast milk of mammals, and used as nutritional supplements in food and drink products. The genetic disorder phenylketonuria is the inability to metabolize phenylalanine. Individuals with this disorder are known as "phenylketonurics". Individuals who cannot metabolize phenylalanine must monitor their intake of protein to control the buildup of phenylalanine.
Applications	For quantitative determination of L-phenylalanine and evaluation of drug effects on its metabolism.
Storage	The kit is shipped on ice. Store all reagents at -20°C except for reconstituted Enzyme A. Shelf life of 6 months after receipt.
Kit Components	Assay Buffer: 10 mL Enzyme A: DriedNAD Solution: 1 mL Enzyme B: 120 µProbe:

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	750 µ Standard: 120 µ
Detection method	FL530/595nm
Compatible Sample Types	Serum, urine etc
Features & Benefits	• Safe. Non-radioactive assay.• Sensitive and accurate. Linear detection range of 2 - 300 µM L-phenylalanine.• Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.
Assay time	30 min
Sensitivity	Detection Limit: 2 µM

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