CREATIVE BIOMART®
Assay Kit

p-Aminohippuric Acid Assay Kit

Product Information

Cat.No. Kit-0647

Product Overview

p-Aminohippuric Acid Assay Kit is a quantitative colorimetric determination of p-aminohippuric acid at 550 nm.

Description

p-Aminohippuric acid (PAH) is a derivative of hippuric acid and useful as a diagnostic agent for the measurement of renal plasma flow. About 20 – 30 % is completely filtered by the glomerulus and not readsorbed by the tubules. The remainder which bypasses the glomerulus and enters the tubules is completely secreted. At low doses, PAH is almost completely removed with one-pass through the kidneys. Hence, the venous concentration of PAH is close to zero and PAH has been used to determine the effective renal plasma flow (eRPF) from the plasma. The venous concentration is usually< 10 % that of the plasma concentration so eRPF slightly underestimates the actual RPF. This error is generally accepted because of the ease with which PAH infusion allows calculation of eRPF.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Keep reagents on ice during use.

Kit Components

TCA (15 %). 15 mlDACA solution. 15 mlPAH Standard (10 mg/ml). 100 µl

Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Culture Medium, Plasma, Serum, Tissue Culture Supernatant, Urine

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