

Ammonia Colorimetric Assay Kit

Cat. No. Kit-0085 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Ammonia Assay Kit provides a rapid, simple and sensitive colorimetric method for the quantitation of ammonia/ammonium concentration in biological samples such as serum, plasma and urine. The assay is based on a chromogenic reaction to produce a blue product upon the reaction of ammonia with our sensor. The intensity of color produced is proportional to the concentration of ammonia in the sample, which can be measured at absorbance 660-670 nm. This kit provides a simple assay to detect as little as 4 μ M ammonia in a 150 μ assay volume.

Size

200 tests

Description

Ammonia (NH₃)/ammonium salt is an important source of nitrogen. In human, ammonia is produced through amino acid deamination and converted to urea through the urea cycle, which is then eliminated in urine. Ammonia levels in the blood rise when the liver is not able to convert ammonia to urea. Hyperammonemia, the elevated levels of ammonia in the blood, has been found in liver dysfunction (cirrhosis), while hypoammonemia has been associated with defects in the urea cycle enzymes (e.g. ornithine transcarbamylase). An ammonia test is usually important in clinical diagnostics to check how well the liver is working or the success of treatment for severe liver disease.

Usage

For research use only (RUO)

Storage

Store at -20°C and avoid light.

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Kit Components

Component A: Assay Buffer I 1 bottle (10 mL) Component B: Assay Buffer II 1 bottle (10 mL) Component C: Ammonium Chloride Standard (1.0 M) 1 vial (0.2mL)

Detection method

Colorimetric

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