

Ammonia Fluorometric Assay Kit

Product Information

Cat.No.

Kit-0086

Product Overview

Ammonia Assay Kit is a quantitative fluorimetric determination of ammonia at FL360/450 nm.

Description

AMMONIA (NH₃) or its ion form ammonium (NH₄⁺) is an important source of nitrogen for living systems and is ubiquitously present in the nature. Simple, direct and automation-ready procedures for measuring NH₃ are very desirable. Ammonia Assay Kit is based on an improved o-phthalaldehyde method. This reagent reacts with ammonia/ ammonium and forms a fluorescent product. The fluorescence intensity ($\lambda_{\text{ex}}/\text{em} = 360/450\text{nm}$) is proportional to the ammonia concentration in the sample.

Applications

Ammonia/ammonium determination in biological (e.g. urine) and environmental samples.

Usage

For research use only (RUO)

Storage

Store kit at -20°C. Shelf life of 6 months after receipt.

Kit Components

Assay Buffer 20 mLStandard (NH₄Cl) 400 μL Reagent A 1 mLReagent B 1 mL

Detection method Fluorimetric

Compatible Sample Types

Environmental Sample, Urine

Features & Benefits

Fast and sensitive. Linear detection range of 0.012 - 1 mM ammonia. Convenient and high-



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throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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