



## 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 (NH<sub>3</sub>) or its ion form ammonium (NH<sub>4</sub><sup>+</sup>) is an important source of nitrogen for living systems and is ubiquitously present in the nature. Simple, direct and automation-ready procedures for measuring NH<sub>3</sub> 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 ( $\lambda_{ex}/\lambda_{em} = 360/450\text{nm}$ ) 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 mL Standard (NH<sub>4</sub>Cl) 400  $\mu$ L Reagent A 1 mL Reagent 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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Assay Kit

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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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