

Ammonia Fluorometric Assay Kit

Cat. No. Kit-0086 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ammonia Assay Kit is a quantitative fluorimetric determination of ammonia at FL360/450 nm.
Description	AMMONIA (NH ₃) or its ion form ammonium (NH ₄ ⁺) 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 ₃ 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 ($\lambda_{\text{ex/em}} = 360/450\text{nm}$) 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 ₄ Cl) 400 μ g Reagent A 1 mL Reagent B 1 mL
Detection method	Fluorimetric
Compatible Sample Types	Environ-mental Sample, Urine
Features & Benefits	Fast and sensitive. Linear detection range of 0.012 - 1 mM ammonia. Convenient and

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