Urea Assay Kit

Cat. No. Kit-0837 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Urea Assay Kit is a quantitative colorimetric urea determination.
Description	Urea is primarily produced in the liver and secreted by the kidneys. Urea is the major end product of protein catabolism in animals. It is the primary vehicle for removal of toxic ammonia from the body. Urea determination is very useful for the medical clinician to assess kidney function of patients. In general, increased urea levels are associated with nephritis, renal ischemia, urinary tract obstruction, and certain extrarenal diseases, e.g., congestive heart failure, liver diseases and diabetes. Decreased levels indicate acute hepatic insufficiency or may result from over-vigorous parenteral fluid therapy.
Applications	Direct Assays: urea in serum, plasma, urine, milk, cell/tissue culture, bronchoalveolar lavage (BAL) etc.Drug Discovery/Pharmacology: effects of drugs on urea metabolism.Environment: urea determination in waste water, soil etc.
Usage	For research use only (RUO)
Storage	Store all components at 2-8°C. For long-term storage, keep standard at -20°C.Shelf life: 12 months after receipt.
Kit Components	Reagent A 12 mLReagent B 12 mLUrea Standard (50 mg/dL) 0.5 mL
Detection method	Colorimetric
Compatible Sample	Bronchoalveolar Lavage Fluid, Cell Culture, Milk, Plasma, Serum, Tissue Culture,

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Types	Urine
Features & Benefits	Sensitive and accurate. Use 5 µL samples. Linear detection range 0.08 mg/dL (13 µM) to 100 mg/dL (17 mM) urea in 96-well plate assay.Simple and high-throughput. The procedure involves addition of a single working reagent and incubation for 20 min. Can be readily automated as a high-throughput assay for thousands of samples per day.Improved reagent stability and versatility. The optimized formulation has greatly enhanced reagent and signal stability. Cuvet or 96-well plate assay.Low interference in biological samples. No pretreatments are needed. Assays can be directly performed on raw biological samples i.e., in the presence of lipid and protein.

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