

Acetylcholine Assay Kit

Cat. No. Kit-0030 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Acetylcholine Assay Kit is a quantitative colorimetric/fluorimetric acetylcholine determination.
Description	ACETYLCHOLINE is a neurotransmitter produced in acetylcholinergic neurons. It plays important roles in skeletal muscle movement, regulation of smooth and cardiac muscles, as well as in learning, memory and mood. Acetylcholine Assay Kit provides a simple, direct and high-throughput assay for measuring acetylcholine in biological samples. In this assay, acetylcholine is hydrolyzed by acetylcholinesterase to choline which is oxidized by choline oxidase to betaine and H ₂ O ₂ . The resulting H ₂ O ₂ reacts with a specific dye to form a pink colored product. The color intensity at 570nm or fluorescence intensity (530/585 nm) is directly proportional to the acetylcholine concentration in the sample.
Applications	Assays: acetylcholine in biological samples such as serum, plasma, urine, saliva, milk, tissue, and cell culture. Drug Discovery/Pharmacology: effects of drugs on acetylcholine metabolism.
Usage	For research use only (RUO)
Storage	Store all components at -20°C. Shelf life of six months after receipt.
Kit Components	Assay Buffer 10 mL ACHE Enzyme 120 µL Enzyme Mix: Dried 1 vial Dye Reagent 120 µL Standard: 2 mM acetylcholine 400 µL
Detection method	Colorimetric, Fluorometric

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Compatible Sample
Types**

Cell Culture, Milk, Plasma, Saliva, Serum, Tissue, Urine

Features & Benefits

Use 20 μ L samples. Linear detection range: colorimetric assay 10 to 200 μ M, fluorimetric assay 0.4 to 10 μ M acetylcholine.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA