



Certificate of Analysis

Product: Acetylcholinesterase Assay Kit

Catalog No.: Z5030044

Shipping Condition: Room temperature

Storage Condition: Room temperature

Shelf Life: 6 months from the date of receipt under proper storage conditions

Description

ACETYLCHOLINESTERASE (EC 3.1.1.7, AChE), also known as RBC cholinesterase, is found primarily in the blood and neural synapses. Low serum cholinesterase activity may relate to exposure to insecticides or to one of a number of variant genotypes. AChE catalyzes the hydrolysis of the neurotransmitter acetylcholine into choline and acetic acid, a reaction necessary to allow a cholinergic neuron to return to its resting state after activation. Cholinesterase levels of cells and plasma are used as a guide in establishing safety precautions relative to exposure and contact, as well as a guide in determining the need for workers to be removed from areas of contact with the organic phosphate insecticides.

Simple, direct and automation-ready procedures for measuring AChE activity are very desirable. Biochain's Acetylcholinesterase Assay is based on an improved Ellman method, in which thiocholine produced by the action of acetylcholinesterase forms a yellow color with 5,5'-dithiobis(2-nitrobenzoic acid). The intensity of the product color, measured at 412 nm, is proportionate to the enzyme activity in the sample.

Components

1. One Kit
2. User Manual
3. Certificate of Analysis
4. MSDS



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Components

1. One Kit
2. User Manual
3. Certificate of Analysis
4. MSDS



Certificate of Analysis

Product: AF Cholesterol Assay Kit

Catalog No.: Z5030061

Shipping Condition: Dry ice

Storage Condition: Store reagents at -20°C.

Shelf Life: 6 months from the date of receipt under proper storage conditions

Description

CHOLESTEROL is a sterol and lipid present in the cell membranes, and is transported in the bloodstream of all animals. It is used to form cell membranes and hormones, and plays important roles in cell signaling processes. Elevated levels (hypercholesterolemia) have been associated with cardiovascular diseases such as atherosclerosis; whereas, low levels (hypocholesterolemia) may be linked to depression, cancer and cerebral hemorrhage.

Simple, direct and automation-ready procedures for measuring cholesterol are very desirable. BioChain's Cholesterol Assay uses a single Working Reagent that combines cholesterol ester hydrolysis, oxidation and color reaction in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at $\lambda_{em}/\lambda_{ex} = 585/530\text{nm}$ is directly proportional to total cholesterol concentration in the sample.

Components

1. One Kit
2. User Manual
3. Certificate of Analysis
4. MSDS



Certificate of Analysis

Product: AF HDL and LDL/VLDL Assay Kit

Catalog No.: Z5030062

Shipping Condition: Dry ice

Storage Condition: Store PBS and Precipitation Reagent at room temperature and the rest reagents at -20°C.

Shelf Life: 6 months from the date of receipt under proper storage conditions

Description

CHOLESTEROL concentrations in *High-Density Lipoprotein* (HDL) and *Low-Density* (LDL)/*Very-Low-Density* (VLDL) Lipoproteins are strong predictors for coronary heart disease. Functional HDL offers protection by removing cholesterol from cells and atheroma. Higher concentrations of LDL and lower concentrations of functional HDL are strongly associated with cardiovascular disease due to higher risk of atherosclerosis. The balances between high- and low-density lipoproteins are solely genetically determined, but can be changed by medications, food choices and other factors.

Simple, direct and automation-ready procedures for measuring HDL and LDL/VLDL concentrations are very desirable. BioChain's HDL and LDL/VLDL quantification kit is based on our improved PEG precipitation method in which HDL and LDL/VLDL are separated, and cholesterol concentrations are determined using a single Working Reagent that combines cholesterol ester hydrolysis, oxidation and color reaction in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at $\lambda_{em}/ex = 585/530nm$ is directly proportional to total cholesterol concentration in the sample.

Components

1. One Kit
2. User Manual
3. Certificate of Analysis
4. MSDS