CREATIVE BIOMART®
Assay Kit

Acetylcholinesterase Stain Kit (Copper Ferricyanide Method)

Product Information

Product Overview

This kit is based on the Karnovsky–Roots method. Acetylcholinesterase hydrolyzes a stable iodinated substrate, releasing sulfur-containing reducing molecules. These molecules react with copper ions to form an insoluble reddish-brown to dark brown precipitate localized at sites of enzyme activity.
The method features simple operation and minimal diffusion of esterase activity, although substrate penetration into tissue is limited. It is suitable for evaluating pathological changes in central and peripheral nerve fibers and aids in the diagnosis of Hirschsprung disease and enteric neuronal developmental disorders. Organophosphate poisoning inhibits enzyme activity, resulting in reduced or negative staining.
The kit mainly contains acetylthiocholine iodide, potassium ferricyanide, and copper sulfate. Enzyme-positive sites appear as brown deposits.

Size

2*20 mL

Storage

Store at -20 □, protected from light. Shelf life: 6 months.

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