

TECHNICAL DATA SHEET**Catalog # MS431****Complex IV Human Protein Quantity Dipstick Assay Kit**

Rev.3

LOT #:

APPLICATIONS: Quantitative analysis of Complex IV (cytochrome c oxidase)

SPECIES CROSS-
REACTIVITY: human, bovine

KIT COMPONENTS:

Item	MS431-30	MS431-90
Dipsticks	30	90
Gold-conjugated antibody (dried in microplate wells)	30 wells	90 wells
Buffer A (Extraction buffer)	15 mL	45 mL
Buffer B (Blocking solution)	1 mL	3 mL
Buffer C (Wash buffer)	1 mL	3 mL

STORAGE CONDITIONS:

- Store dipsticks and microplate with gold-conjugated antibody at room temperature out of direct sunlight in their provided storage containers.
- Store Buffers A, B, and C at 4°C or at -20°C for long-term storage.

COUNTRY OF ORIGIN: USA

BACKGROUND:

Complex IV, also called cytochrome c oxidoreductase or cytochrome c oxidase, is a complex of 13 different subunits, three of which (I, II and III) are encoded on mitochondrial DNA and the remainder in the nuclear DNA. The complex contains two heme groups (a and a_3) and two copper atoms as prosthetic groups. Genetic alterations of this enzyme complex are a common cause of OXPHOS diseases and the enzyme is altered in patients with Alzheimer's disease. Also, there are reports of reduced amounts of this complex in hypoxic cancer cells.

Note: This product is for research purposes only. It is not to be used in humans or for diagnostic purposes.

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