

**TECHNICAL DATA SHEET****Catalog # MSP19****Pyruvate Dehydrogenase (PDH) Protein Quantity Microplate Assay Kit**

Rev.6

LOT #:

**APPLICATIONS:** Quantitative analysis of PDH quantity (pyruvate dehydrogenase)**SPECIES CROSS-REACTIVITY:** human, bovine, mouse, rat**KIT COMPONENTS:**

Part Number	Item Description	Amount
8209001	20X Buffer	20 mL
8201088	Detergent	1 mL
8209203	10X Blocking Buffer	10 mL
8209703	5X Stabilizer	13 mL
8209003	20X Detector Antibody	1 mL
8203026	20X HRP Label	1 mL
8203015	1X HRP Development Solution	20 mL
8209200	96-well Microplate (12 strips)	1

**STORAGE CONDITIONS:** Store 5X Stabilizer at -20°C.  
Store all other components at 4°C.**COUNTRY OF ORIGIN:** USA**BACKGROUND:**

The pyruvate dehydrogenase complex (PDH) is at the center of aerobic carbohydrate metabolism. It is localized in the matrix space of mitochondria where it catalyzes the irreversible oxidative decarboxylation of pyruvate entering the organelle to produce acetyl-CoA, NADH and CO<sub>2</sub>.

PDH is a complex of three different enzymes that channel substrate and product. These are pyruvate dehydrogenase (E1), dihydrolipoamide transacetylase (E2) and dihydrolipoamide dehydrogenase (E3).

PDH deficiencies, diabetes, starvation, sepsis, and possibly Alzheimer's disease have been linked to altered PDH functioning.

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

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