

TECHNICAL DATA SHEET**Catalog # MSP20****Pyruvate Dehydrogenase (PDH) Specific Activity Microplate Assay Kit**

Rev.6

PDH Activity Assay Components (MSP18)

LOT #:

APPLICATIONS: Quantitative analysis of PDH activity (pyruvate dehydrogenase)

SPECIES CROSS-REACTIVITY: human, bovine, mouse, rat

KIT COMPONENTS:

Item	MSP18
20X Buffer	15 mL
Detergent	2 x 1 mL
20X Reagent Mix	2 x 0.6 mL
5X Stabilizer	13 mL
100X Coupler	0.25 mL
100X Reagent Dye	0.25 mL
96-well Microplate (12 strips)	1

STORAGE CONDITIONS: Store 20X Buffer, Detergent, and microplate at 4°C.
Store 5X Stabilizer and 100X Reagent Dye at -20°C.
Store 20X Reagent Mix and 100X Coupler, at -80°C.**PDH Quantity Assay Components (MSP19)**

LOT #:

APPLICATIONS: Quantitative analysis of PDH (pyruvate dehydrogenase)

SPECIES CROSS-REACTIVITY: human, bovine, mouse, rat

KIT COMPONENTS:

Item	MSP19
20X Buffer	20 mL
Detergent	1 mL
10X Blocking Buffer	10 mL
5X Stabilizer	13 mL
20X Detector Antibody	1 mL
20X HRP Label	1 mL
1X HRP Development Solution	20 mL
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

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

WARRANTY – MitoSciences Inc warranties that products will perform as indicated in the published Technical Data Sheet for 1 month from date of purchase when stored according to specifications and when used consistent with recommended protocols. If you experience results which materially differ from those described, send evidence of the non-performing product for replacement of the original product purchased or a credit toward any other of the company's products or services.

TECHNICAL DATA SHEET**Pyruvate Dehydrogenase (PDH) Combo (Activity + Quantity)
Microplate Assay Kit****Catalog # MSP20****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 CO₂.

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 function.

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

WARRANTY – MitoSciences Inc warrants that products will perform as indicated in the published Technical Data Sheet for 1 month from date of purchase when stored according to specifications and when used consistent with recommended protocols. If you experience results which materially differ from those described, send evidence of the non-performing product for replacement of the original product purchased or a credit toward any other of the company's products or services.