

Materials List for:

Simultaneous Measurement of Superoxide/Hydrogen Peroxide and NADH Production by Flavin-containing Mitochondrial Dehydrogenases

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Materials

Name	Company	Catalog Number	Comments
Pyruvate dehydrogenase complex	SIGMA	P7032-10UN	purified flavoenzyme
alpha-ketoglutarate dehydrogenase complex	SIGMA	K1502-20UN	purified flavoenzyme
30% hydrogen peroxide solution	SIGMA	HX0640-5	reagent, standard curves
NAD+	SIGMA	N0632-1G	reagent, activity/ROS release assay
NADH	SIGMA	N4505-100MG	reagent, standard curves
pyruvate	SIGMA	P2256-5G	reagent, activity/ROS release assay
alpha-ketoglutarate	SIGMA	75892-25G	reagent, activity/ROS release assay
CoASH	SIGMA	C3019-25MG	reagent, activity/ROS release assay
thiamine pyrophosphate	SIGMA	C8754-1G	reagent, activity/ROS release assay
mannitol	SIGMA	M4125-100G	buffer component
Hepes	SIGMA	H3375-25G	buffer component
sucrose	SIGMA	S7903-250G	buffer component
EGTA	SIGMA	E3889-10G	buffer component
KMV	SIGMA	198978-5G	reagent, ROS release inhibitor
CPI-613	Santa Cruz	sc-482709	reagent, ROS release inhibitor
SOD	SIGMA	S9697-15KU	reagent, ROS release detection
horseradish peroxidase	SIGMA	P8375-1KU	reagent, ROS release detection
Amplex Ultra Red	ThermoFisher	A36006	reagent, ROS release detection
Biotech Synergy 2 microplate reader	BioTek Instruments		microplate reader for assays
Gen5 software	BioTek Instruments		software, used for collection of raw RFU
Graphpad Prism	Graphpad software		software, data analysis
Microsoft EXCEL	Microsoft		software, data analysis