

Abbkine Top Selling Products for Metabolism Assay

CheKine™ Metabolism Assay kits

Metabolism is the summary of well-organized chemical reactions that take place within living organism, which includes material metabolism and energy metabolism. The imbalance of metabolism regulation is related to many diseases, such as diabetes, fatty liver, cardiovascular disease, cancer, Alzheimer's disease and so on. Biochemical detection is the main method to detect metabolism in a living organism. It makes use of pathology, biochemistry and other theories as well as techniques to quantify the chemical substances in blood, urine, cerebrospinal fluid or other samples. Biochemical detection method can reveal the effects of disease changes and drug action on a living organism for clinical research.



Abbkine provides a series of self-developed CheKine™ biochemical assay kits which are stable in performance and easy to operate. CheKine™ biochemical assay kits adopt a more efficient and innovative detection technology, and an optimized experiment schemes in RD, which make our kits are compatible to various biological samples, especially animals or plant tissues, cell cultures (adherent or suspension) and fungi, etc. Abbkine CheKine™ biochemical assay kits provide a full set of reagents and standards per experiment need, and attach a detailed protocol which can help you get accurate and repeatable data.



- Oxidative Stress
- Carbohydrate Metabolism
- Lipid Metabolism
- Nitrogen Metabolism
- Energy Metabolism
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Oxidative Stress



Category	Product Name	Cat. No.	Size
Oxidation & Antioxidant	CheKine™ Hydrogen Peroxide (H ₂ O ₂) Assay Kit	KTB1041	48T/96T/480T
	CheKine™ Lipid Peroxidation (MDA) Assay kit	KTB1050	48T/96T
	CheKine™ Xanthine Oxidase Assay Kit	KTB1070	48T/96T/480T
	CheKine™ Polyphenol Oxidase (PPO) Activity Colorimetric Assay Kit	KTB1140	48T/96T
	CheKine™ Phenylalanine Ammonia Lyase (PAL) Activity Colorimetric Assay Kit	KTB1160	48T/96T
	CheKine™ Protein Carbonyl Colorimetric Assay Kit	KTB1200	48T/96T
	CheKine™ Superoxide Anion Colorimetric Assay Kit	KTB1210	48T/96T
	CheKine™ Diamine Oxidase (DAO) Activity Colorimetric Assay Kit	KTB1220	48T/96T
	CheKine™ Nitric Oxide (NO) Assay Kit	KTB1400	48T/96T/192T
	CheKine™ Monoamine Oxidase (MAO) Activity Colorimetric Assay Kit	KTB1900	48T/96T
	CheKine™ Reactive Oxygen Species (ROS) Detection Assay Kit (Fluorometric)	KTB1910	50T/100T
	CheKine™ Superoxide Dismutases (SOD) Assay Kit	KTB1030	48T/96T/480T
	CheKine™ Catalase (CAT) Activity Assay Kit	KTB1040	48T/96T/480T
	CheKine™ Superoxide anion Scavenging Capacity Assay Kit	KTB1080	48T/96T
	CheKine™ Hydroxyl Free Radical Scavenging Capacity Assay Kit	KTB1090	48T/96T
	CheKine™ Peroxidase (POD) Activity Colorimetric Assay Kit	KTB1150	48T/96T
	CheKine™ Glucose Oxidase Activity (GOD) Assay Kit	KTB1310	48T/96T/480T
	CheKine™ Total Antioxidant Capacity (TAC) Assay Kit	KTB1500	48T/96T/480T
	CheKine™ Plant Oligomeric Proantho Cyanidins (OPC) Colorimetric Assay Kit	KTB1520	48T/96T
	CheKine™ Plant Flavonoids Colorimetric Assay Kit	KTB1530	48T/96T
CheKine™ Plant Total Phenols (TP) Colorimetric Assay Kit	KTB1540	48T/96T	
Glutathione	CheKine™ Reduced Glutathione (GSH) Colorimetric Assay Kit	KTB1600	48T/96T
	CheKine™ Glutathione Oxidized (GSSG) Colorimetric Assay Kit	KTB1610	48T/96T/96T*5
	CheKine™ Glutathione Reductases (GR) Colorimetric Assay Kit	KTB1620	48T/96T/192T
	CheKine™ Glutathione S-Transferase (GST) Colorimetric Assay Kit	KTB1630	48T/96T
	CheKine™ Glutathione Peroxidase (GSH-Px) Colorimetric Assay Kit	KTB1640	48T/96T/192T
	CheKine™ Thioredoxin Reductase (TrxR) Colorimetric Assay Kit	KTB1650	48T/96T
	CheKine™ Thioredoxin Peroxidase (TPX) Colorimetric Assay Kit	KTB1660	48T/96T
	CheKine™ Toal Glutathione (T-GSH) Colorimetric Assay Kit	KTB1670	48T/96T
	CheKine™ γ-Glutamyl Cysteine Ligase (GCL) Activity Colorimetric Assay Kit	KTB1680	48T/96T
	CheKine™ Gamma-Glutamyl Transpeptidase (GGT) Activity Colorimetric Assay Kit	KTB1690	96T

*** Oxidative stress is defined as excess production of reactive oxygen species (ROS) relative to antioxidant defense. All types of agents (chemical, physical, and microbial) can lead to oxidative-mediated stress in tissues and cells. Oxidative-mediated reactions are involved in many fundamental aspects of life processes such as cell respiration (mitochondria), lipid synthesis, metal metabolism, lysosomes, phagocytosis of foreign bodies (immunity and inflammation), and xenobiotic biotransformation of organic compounds. The release of reactive oxygen species during these processes is neutralized by a suite of antioxidant compounds (reduced thiols, vitamins C and E, and catecholamines) and enzyme systems (superoxide dismutase, peroxidase, catalase, and glutathione reductase) in an attempt to protect the integrity of cells or tissues.



Carbohydrate Metabolism



Category	Product Name	Cat. No.	Size
Glycolysis	CheKine™ Lactate Assay Kit	KTB1100	48T/96T/480T
	CheKine™ Pyruvate Kinase (PK) Colorimetric Assay Kit	KTB1120	48T/96T
	CheKine™ Pyruvate Acid (PA) Colorimetric Assay Kit	KTB1121	48T/96T
	CheKine™ Phosphoenolpyruvate Carboxylase (PEPC) Activity Colorimetric Assay Kit	KTB1122	48T/96T
Kreb's cycle	CheKine™ Citrate Synthase (CS) Activity Assay Kit(Colorimetric)	KTB1023	48T/96T
	CheKine™ Succinate Dehydrogenase (SDH) Activity Assay Kit (Colorimetric)	KTB1230	96T
	CheKine™ α -Ketoglutarate Dehydrogenase (α -KGDH) Assay Kit (Colorimetric)	KTB1240	48T/96T
	CheKine™ Mitochondrial Isocitrate Dehydrogenase (ICDHm) Assay Kit	KTB1250	48T/96T
	(Colorimetric) CheKine™ Acetyl Coenzyme A (Acetyl-CoA) Assay Kit (Colorimetric)	KTB1260	48T/96T
	CheKine™ Pyruvate Dehydrogenase (PDH) Activity Assay Kit (Colorimetric)	KTB1270	48T/96T
Glucose Metabolism	CheKine™ Glucose Assay Kit	KTB1300	48T/96T/192T
	CheKine™ Plant Soluble Sugar Colorimetric Assay Kit	KTB1320	96T
	CheKine™ Blood Glucose Assay Kit (Colorimetric)	KTB1330	48T/96T
	CheKine™ Glycogen Assay Kit (Colorimetric)	KTB1340	96T
	CheKine™ Reducing Sugar (RS) Assay Kit (Colorimetric)	KTB1360	48T/96T



Lipid Metabolism

Category	Product Name	Cat. No.	Size
Fatty Acid Metabolism	CheKine™ Tissue and Blood Alkaline Phosphatase (AKP/ALP) Colorimetric Assay Kit	KTB1700	48T/96T/96T*5
	CheKine™ Triglyceride (TG) Colorimetric Assay Kit	KTB2200	48T/96T
	CheKine™ Free Cholesterol (FC) Colorimetric Assay Kit	KTB2210	48T/96T
	CheKine™ Total Cholesterol (TC) Colorimetric Assay Kit	KTB2220	48T/96T
	CheKine™ Mitochondrial Isocitrate Dehydrogenase (ICDHm) Assay Kit (Colorimetric)	KTB1250	48T/96T



Nitrogen metabolism

Category	Product Name	Cat. No.	Size
Amino Acid Metabolism	CheKine™ Alanine Aminotransferase (ALT/GPT) Activity Colorimetric Assay Kit	KTB1410	96T
	CheKine™ Aspartate Aminotransferase (AST/GOT) Activity Colorimetric Assay Kit	KTB1420	96T
	CheKine™ Proline (PRO) Colorimetric Assay Kit	KTB1430	48T/96T
	CheKine™ Glutamate (Glu) Colorimetric Assay Kit	KTB1440	48T/96T
	CheKine™ Cysteine (Cys) Colorimetric Assay Kit	KTB1450	48T/96T



Energy Metabolism



Category	Product Name	Cat. No.	Size
ATP Related	CheKine™ Na ⁺ /K ⁺ - ATPase Activity Colorimetric Assay Kit	KTB1800	48T/96T
	CheKine™ Ca ²⁺ /Mg ²⁺ - ATPase Activity Colorimetric Assay Kit	KTB1810	48T/96T
Mitochondrial Complex	CheKine™ Mitochondrial complex I Activity Assay Kit (colorimetric)	KTB1850	48T/96T
	CheKine™ Mitochondrial complex II Activity Assay Kit (colorimetric)	KTB1860	48T/96T
	CheKine™ Mitochondrial complex III Activity Assay Kit (colorimetric)	KTB1870	48T/96T
	CheKine™ Mitochondrial complex IV Activity Assay Kit (colorimetric)	KTB1880	48T/96T
	CheKine™ Mitochondrial complex V Activity Assay Kit (colorimetric)	KTB1890	48T/96T



Inorganic ion

Category	Product Name	Cat. No.	Size
Ion detection	CheKine™ Serum Potassium (K ⁺) Colorimetric Assay Kit	KTB2100	96T
	CheKine™ Serum Iron Colorimetric Assay Kit	KTB2110	96T
	CheKine™ Blood Calcium Colorimetric Assay Kit	KTB2120	96T
	CheKine™ Serum Sodium Colorimetric Assay Kit	KTB2130	96T
	CheKine™ Serum Zinc Colorimetric Assay Kit	KTB2140	48T/96T
	CheKine™ Total Iron-Binding Capacity (TIBC) Assay Kit (Colorimetric)	KTB2150	96T



Coenzyme & Cofactor

Category	Product Name	Cat. No.	Size
Coenzyme II	CheKine™ Coenzyme II NADP(H) Assay Kit	KTB1010	48T/96T
Coenzyme I	CheKine™ Glucose-6-Phosphate Dehydrogenase (G6PDH) Activity Colorimetric Assay Kit	KTB1011	48T/96T
	CheKine™ Coenzyme I NAD(H) Assay Kit	KTB1020	48T/96T
	CheKine™ NAD ⁺ kinase (NADK) Activity Colorimetric Assay Kit	KTB1022	48T/96T
	CheKine™ Lactate Dehydrogenase (LDH) Assay Kit	KTB1110	48T/96T/480T
	CheKine™ NADH Oxidase (NOX) Colorimetric Assay Kit	KTB1021	48T/96T

Abbkine Scientific Co.,Ltd, founded in 2012 in California by a group of like-minded scientists and marketing experts, with the rapid growth of the asian market, Abbkine relocated its head- quarters to China. Abbkine is committed to providing innovative, high-quality, affordable experimental kits, proteins, antibodies, and other research tools combine the great advantages of American technology and Chinese manufacturing in order to become the key promoter in life science fundamental research and drug discovery.

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