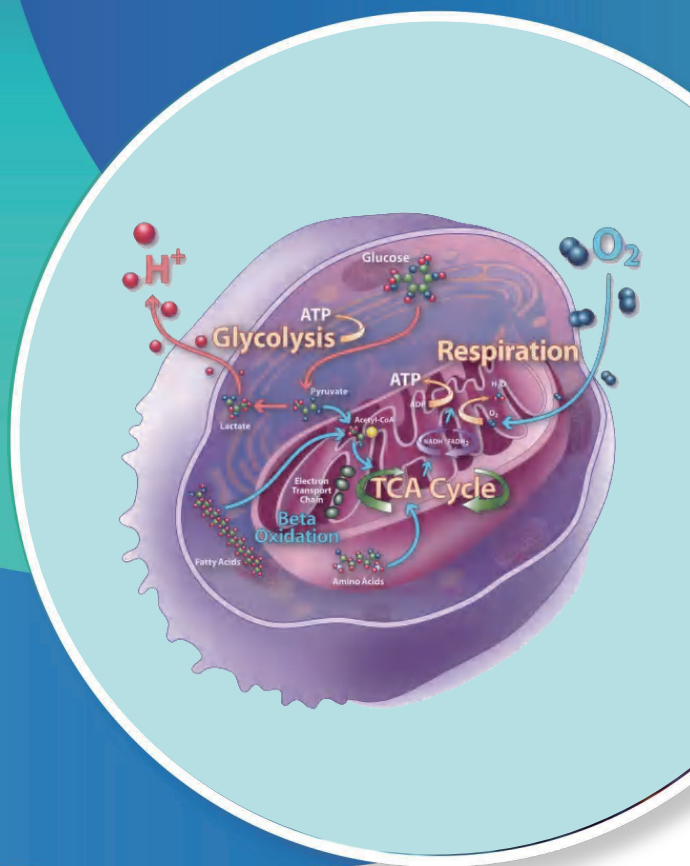


Elabscience®

Featured Metabolism Assay Products

A Reliable Research Partner in Life Science and Medicine



www.elabscience.com

Elabscience Bionovation Inc.

Elabscience® offers 390+ user-friendly and validated assay kits to streamline research across diverse cell and disease models. These kits enable efficient analysis of how targets or compounds impact specific metabolic pathways and phenotypes.

Featured Products

■ Oxidative Stress

Oxidative stress arises from an imbalance between the production and removal of oxygen free radicals in the body or cells. Our products precisely measure reactive oxygen species (ROS), reactive nitrogen species (RNS), antioxidants, and the activity of associated enzymes.

Target	Product Name	Cat. No.	Size	Price
CAT	Catalase (CAT) Activity Assay Kit	E-BC-K031-M	48 T/96 T	\$120/\$150
GSH	Reduced Glutathione (GSH) Colorimetric Assay Kit	E-BC-K030-M	48 T/96 T	\$120/\$150
GSH/GSSG	Total Glutathione (T-GSH)/Oxidized Glutathione (GSSG) Colorimetric Assay Kit	E-BC-K097-M	96 T	\$280
GSH-Px	Glutathione Peroxidase (GSH-Px) Activity Assay Kit	E-BC-K096-M	48 T/96 T	\$180/\$260
GSH-Px	Glutathione Peroxidase (GSH-Px) Activity Assay Kit	E-BC-K096-S	50 Assays/100 Assays	\$180/\$260
MDA	Malondialdehyde (MDA) Colorimetric Assay Kit (TBA Method)	E-BC-K025-M	96 T/500 Assays	\$220/\$500
	Malondialdehyde (MDA) Colorimetric Assay Kit (Cell Samples)	E-BC-K028-M	500 Assays	\$280
MPO	Myeloperoxidase (MPO) Activity Assay Kit	E-BC-K074-M	48 T/96 T	\$150/\$200
NAD ⁺ /NADH	NAD ⁺ /NADH Colorimetric Assay Kit (WST-8)	E-BC-K804-M	96 T	\$450
NO	Nitric Oxide (NO) Colorimetric Assay Kit	E-BC-K035-M	48 T/96 T	\$120/\$150
	Nitric Oxide (NO) Colorimetric Assay Kit (Nitrate Reductase Method)	E-BC-K135-M	48 T/96 T	\$180/\$220
ROS	Reactive Oxygen Species (ROS) Fluorometric Assay Kit (Green)	E-BC-K138-F	96 T	\$220
SOD	Total Superoxide Dismutase (T-SOD) Activity Assay Kit (WST-1 Method)	E-BC-K020-M	96 T/500 Assays	\$260/\$650
	Total Superoxide Dismutase (T-SOD) Activity Assay Kit (Hydroxylamine Method)	E-BC-K019-S	50 Assays/100 Assays	\$200/\$280
	Total Superoxide Dismutase (T-SOD) Activity Assay Kit (Hydroxylamine Method)	E-BC-K019-M	48 T/96 T	\$200/\$280
T-AOC	Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit	E-BC-K136-M	48 T/96 T	\$150/\$200
	Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit (ABTS, Enzyme Method)	E-BC-K219-M	48 T/96 T	\$150/\$200
	Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit (FRAP Method)	E-BC-K225-M	96 T/500 Assays	\$180/\$480
TAS	Total Antioxidant Status (TAS) Colorimetric Assay Kit	E-BC-K801-M	48 T/96 T	\$100/\$150
TBARS	Thiobarbituric Acid Reactants (TBARS) Colorimetric Assay Kit	E-BC-K298-M	96 T/500 Assays	\$220/\$500
TOS	Total Oxidant Status (TOS) Colorimetric Assay Kit	E-BC-K802-M	48 T/96 T	\$100/\$150

For more Metabolism Assay products, please visit www.elabscience.com or contact local distributors.

■ Energy Metabolism

Energy metabolism is a fundamental cellular process involving key biochemical pathways, including glycolysis, lipid metabolism, the tricarboxylic acid (TCA) cycle, and oxidative phosphorylation. It serves as a vital indicator of cellular health.

Target	Product Name	Cat. No.	Size	Price
ATP	ATP Chemiluminescence Assay Kit	E-BC-F002	48 T/96 T	\$300/\$450
	ATP Colorimetric Assay Kit	E-BC-K157-M	48 T/96 T	\$200/\$280
ATP/ADP	ATP/ADP Ratio Chemiluminescence Assay kit	E-BC-F004	48 T/96 T	\$320/\$420
Complex I	Cell Mitochondrial Complex I Activity Assay Kit	E-BC-K834-M	48 T/96 T	\$280/\$380
Complex II	Cell Mitochondrial Complex II Activity Assay Kit	E-BC-K835-M	48 T/96 T	\$320/\$480
Complex III	Cell Mitochondrial Complex III Activity Assay Kit	E-BC-K836-M	48 T/96 T	\$280/\$380
Complex IV	Cell Mitochondrial Complex IV Activity Assay Kit	E-BC-K837-M	48 T/96 T	\$320/\$480
Complex V	Cell Mitochondrial Complex V Activity Assay Kit	E-BC-K838-M	48 T/96 T	\$380/\$520
ECAR	Extracellular Acidification Rate (ECAR) Fluorometric Assay Kit	E-BC-F069	48 T/96 T	\$320/\$420
FAO	Fatty Acid Oxidation (FAO) Colorimetric Assay Kit	E-BC-K784-M	96 T	\$560
OCR	Oxygen Consumption Rate (OCR) Fluorometric Assay Kit	E-BC-F068	48 T/96 T	\$360/\$520

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■ Ferroptosis and Cuproptosis

Ferroptosis and cuproptosis are newly identified forms of cell death, distinct from apoptosis, necrosis, and autophagy. Ferroptosis is driven by iron-dependent lipid peroxidation caused by ferrous iron accumulation, while cuproptosis results from intracellular copper ion buildup, leading to proteotoxic stress and cell death.

Target	Product Name	Cat. No.	Size	Price
α -KG	α -Ketoglutarate (α -KG) Fluorometric Assay Kit	E-BC-F047	48 T/96 T	\$356/\$520
Cu ⁺	Cellular Cuprous Fluorometric Assay Kit	E-BC-F102	48 T/96 T	\$350/\$480
Cu ²⁺	Cell Copper (Cu ²⁺) Colorimetric Assay Kit (Complexing Method)	E-BC-K775-M	48 T/96 T	\$200/\$300
Cystine Uptake	Cystine Uptake Fluorometric Assay Kit	E-BC-F066	96 T	\$580
Fe	Cell Total Iron Colorimetric Assay Kit	E-BC-K880-M	48 T/96 T	\$200/\$300
	Total Iron Colorimetric Assay Kit	E-BC-K772-M	48 T/96 T	\$150/\$220
Fe ²⁺	Cell Ferrous Iron Colorimetric Assay Kit	E-BC-K881-M	48 T/96 T	\$200/\$300
FSP-1	Ferroptosis Suppressor Protein-1 (FSP-1) Activity Fluorometric Assay Kit	E-BC-F022	96 T	\$520
GPX4	Glutathione Peroxidase 4 (GPX4) Activity Assay Kit	E-BC-K883-M	48 T/96 T	\$342/\$512
LPO	Lipid Peroxide (LPO) Colorimetric Assay Kit	E-BC-K176-M	48 T/96 T	\$260/\$380

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■ Glycolysis and Lipid Metabolism

Glycolysis and lipid metabolism are essential for energy production and storage, involving pathways such as glycolysis and β -oxidation. Elabscience® kits facilitate the analysis of metabolites and enzyme activities associated with glycolipid metabolism.

Target	Product Name	Cat. No.	Size	Price
Adipogenesis	Adipogenesis Fluorometric Assay Kit	E-BC-F065	96 T	\$350
D-lactate	D-Lactic Acid/Lactate(LA)Colorimetric Assay Kit	E-BC-K002-M	48 T/96 T	\$220/\$300
FFA	Free Fatty Acids (NEFA/FFA) Fluorometric Assay Kit	E-BC-F039	48 T/96 T	\$300/\$450
Glu	Glucose (Glu) Colorimetric Assay Kit (GOD-POD Method)	E-BC-K234-M	96 T/500 Assays	\$150/\$400
HDL-C	High-density Lipoprotein Cholesterol (HDL-C) Colorimetric Assay Kit (Double reagents)	E-BC-K221	96 T	\$150
Ketone Body	β -Hydroxybutyrate (Ketone Body) Colorimetric Assay Kit	E-BC-K785-M	48 T/96 T	\$200/\$300
LDH	Lactate Dehydrogenase (LDH) Activity Assay Kit	E-BC-K046-M	96 T/500 Assays	\$150/\$400
LDL-C	Low-density Lipoprotein Cholesterol (LDL-C) Colorimetric Assay Kit (Double Reagents)	E-BC-K205	96 T	\$150
L-lactate	L-Lactic Acid (LA) Colorimetric Assay Kit	E-BC-K044-M	48 T/96 T	\$220/\$300
TC	Total Cholesterol (TC) Colorimetric Assay Kit (Single Reagent, COD-PAP Method)	E-BC-K109-M	96 T/500 Assays	\$180/\$500
TG	Triglyceride (TG) Colorimetric Assay Kit (Single Reagent, GPO-PAP Method)	E-BC-K261-M	96 T/500 Assays	\$120/\$360

For more Metabolism Assay products, please visit www.elabscience.com or contact local distributors.

■ Liver and Renal Function

The liver and kidneys are essential to metabolism, making their functional evaluation critical for understanding disease mechanisms and advancing drug research. Elabscience® kits enable the precise measurement of metabolites and enzyme activities related to liver and kidney function.

Target	Product Name	Cat. No.	Size	Price
ALB	Albumin (ALB) Colorimetric Assay Kit (Bromocresol Green Method)	E-BC-K057-M	96 T/500 Assays	\$150/\$400
ALP	Alkaline Phosphatase (ALP) Activity Assay Kit	E-BC-K091-M	96 T/500 Assays	\$150/\$380
ALT/GPT	Alanine Aminotransferase (ALT/GPT) Activity Assay Kit	E-BC-K235-M	48 T/96 T	\$120/\$180
AST/GOT	Aspartate Aminotransferase (AST/GOT) Activity Assay Kit	E-BC-K236-M	48 T/96 T	\$120/\$180
BUN	Urea (BUN) Colorimetric Assay Kit (Urease Method)	E-BC-K183-M	96 T	\$150
Cr	Creatinine (Cr) Colorimetric Assay Kit (Sarcosine Oxidase Method)	E-BC-K188-M	48 T/96 T	\$150/\$240
GGT/ γ -GT	γ -Glutamyl Transferase (GGT/ γ -GT) Activity Assay Kit	E-BC-K126-M	48 T/96 T	\$180/\$260
TBA	Total Bile Acid (TBA) Colorimetric Assay Kit	E-BC-K181-M	96 T/500 Assays	\$240/\$840

For more Metabolism Assay products, please visit www.elabscience.com or contact local distributors.

■ Inhibitor Screening

Enzymes are key drug targets. Elabscience® has developed a range of assay kits designed for inhibitor screening, supporting advancements in drug discovery.

Target	Product Name	Cat. No.	Size	Price
ACE2	Angiotensin Converting Enzyme 2 (ACE2) Inhibitor Screening Kit	E-BC-D001	96 T	\$480
DPP4	Dipeptidyl Peptidase IV (DPP4) Inhibitor Screening Assay Kit	E-BC-D007	96 T	\$520
FSP-1	Ferroptosis Suppressor Protein-1 (FSP-1) Inhibitor Screening Kit	E-BC-D008	48 T/96 T	\$440/\$660
HMGR	3-Hydroxy-3-methylglutaryl-CoA Reductase (HMGR) Inhibitor Screening Kit	E-BC-D011	48 T/96 T	\$470/\$660
MAO-A	Monoamine Oxidase A (MAO-A) Inhibitor Screening Kit	E-BC-D012	48 T/96 T	\$350/\$520
MMP-3	Matrix Metalloproteinase 3 (MMP-3) Inhibitor Screening Kit	E-BC-D003	96 T	\$560
NA	Neuraminidases (NA) Inhibitor Screening Assay Kit	E-BC-D004	96 T	\$290

For more Metabolism Assay products, please visit www.elabscience.com or contact local distributors.

■ Plant Physiology Series

Plants adapt to stress by regulating metabolic pathways and metabolite levels. Elabscience® provides a range of kits to measure plant metabolites and enzyme activities, supporting research into plant physiology and stress response mechanisms.

Target	Product Name	Cat. No.	Size	Price
α-Amylase	α-Amylase Activity Assay Kit	E-BC-K007-M	48 T/96 T	\$120/\$150
APX	Ascorbate Peroxidase (APX) Activity Assay Kit	E-BC-K353-S	50 Assays/ 100 Assays	\$220/\$320
Flavonoids	Plant Flavonoids Colorimetric Assay Kit	E-BC-K284-S	100 Assays/500 Assays	\$260/\$780
LOX	Lipoxygenase (LOX) Activity Assay Kit	E-BC-K861-M	48 T/96 T	\$252/\$380
Pro	Proline (Pro) Colorimetric Assay Kit	E-BC-K177-S	50 Assays/ 100 Assays	\$240/\$360
VC	Vitamin C (VC) Colorimetric Assay Kit	E-BC-K034-M	48 T/96 T	\$150/\$200

For more Metabolism Assay products, please visit www.elabscience.com or contact local distributors.

■ Inorganic Ions

Inorganic ions, as essential trace elements in biological cells, are vital for life processes. Imbalances in plasma ion levels are associated with various diseases.

Target	Product Name	Cat. No.	Size	Price
Ca	Calcium (Ca) Colorimetric Assay Kit	E-BC-K103-M	48 T/96 T	\$120/\$150
K	Potassium (K) turbidimetric Assay Kit	E-BC-K279-M	48 T/96 T	\$120/\$150
Na	Sodium (Na) Colorimetric Assay Kit	E-BC-K207-M	48 T/96 T	\$100/\$150
Se	Selenium Colorimetric Assay Kit	E-BC-K776-M	48 T/96 T	\$260/\$380
Zn	Zinc (Zn) Colorimetric Assay Kit	E-BC-K137-M	48 T/96 T	\$150/\$220

For more Metabolism Assay products, please visit www.elabscience.com or contact local distributors.

■ Amino Acids and Proteins

Amino acid metabolism, including processes such as deamination, decarboxylation, ammonia regulation, and oxidative decomposition, is essential for life processes. Elabscience® provides a range of kits for measuring amino acids and enzyme activities, supporting research into key metabolic pathways.

Target	Product Name	Cat. No.	Size	Price
AchE	Acetylcholinesterase (AchE) Activity Assay Kit	E-BC-K174-M	48 T/96 T	\$150/\$220
β-GAL	β-galactosidase (β-GAL) Activity Assay Kit	E-BC-K631-M	96T	\$280
Cys	Cysteine (Cys) Colorimetric Assay Kit	E-BC-K352-M	48 T/96 T	\$260/\$380
DAO	Diamine oxidase (DAO) Activity Assay Kit	E-BC-K524-M	96 T	\$320
GABA	γ-Aminobutyric Acid (GABA) Colorimetric Assay Kit	E-BC-K852-M	48 T/96 T	\$180/\$260
GSP	Glycosylated Serum Protein (GSP) Colorimetric Assay Kit	E-BC-K069-M	48 T/96 T	\$220/\$320
TP	BCA Protein Colorimetric Assay Kit	E-BC-K318-M	96 T/500 Assays	\$100/\$150
	Bradford Protein Colorimetric Assay Kit	E-BC-K168-M	96 T/500 Assays	\$100/\$200

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Metabolism Assay Kits Cited in Publications

Target	Cat. No.	Influential Citation Information	Citation Count
Cr	E-BC-K188-M	Xu W, Li G, Chen Y, Ye X, Song W. A novel antidiuretic hormone governs tumour-induced renal dysfunction[J]. <i>Nature</i> , 2023.	36
Cys	E-BC-K352-M	Song T T, Qin W S, Lai Z L, et al. Dietary cysteine drives body fat loss via FMRFamide signaling in Drosophila and mouse[J]. <i>Cell Research</i> , 2023.	6
Fe ²⁺	E-BC-K881-M	Jiang M, Jike Y, Liu K, et al. Exosome-mediated miR-144-3p promotes ferroptosis to inhibit osteosarcoma proliferation, migration, and invasion through regulating ZEB1[J]. <i>Molecular Cancer</i> , 2023.	89
L-LA	E-BC-K044-M	Meng J J, Shen J W, Li G, et al. Light modulates glucose metabolism by a retina-hypothalamus-brown adipose tissue axis[J]. <i>Cell</i> , 2023.	37
NEFA	E-BC-K792-M	Wang X C, He Q F, Zhou C L, et al. Prolonged hypernutrition impairs TREM2-dependent efferocytosis to license chronic liver inflammation and NASH development[J]. <i>Immunity</i> , 2023.	1
TP	E-BC-K318-M	Wang X, He Q, Zhou C, et al. Pregnancy-induced changes to the gut microbiota drive macrophage pyroptosis and exacerbate septic inflammation[J]. <i>Immunity</i> , 2023.	158

For more citation information, please visit www.elabscience.com

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