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Assay Type	*Cat No.*	*Product Name*	*Pack size*	*Instrument*	*Sample type*	*Detection Principle*	*Sensitivity*	*Detc. Range*
Quantitative (Explore More)	E-BC-K196-M	**5'-Nueleotidase (5'-NT) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	5'-Nucleotide enzyme (5'-NT, EC 3.1.3.5), full name is 5'-ribonucleotide phosphohydrolase, is a special phosphohydrolase that specifically hydrolyzes 5'-phosphoric acid attached to pentose in 5'-nucleotide. This enzyme is widely distributed in the cell membrane of various tissues of human and animal. Only the 5'-NT released by the tissue cells of the hepatobiliary system may enter the blood. Therefore, the source of serum 5'-NT has certain specificity, and the determination of serum 5'-NT has important value for the diagnosis of hepatobiliary diseases.	28.0 U/L	28.0-581 U/L
Enzyme Activity (Explore More)	E-BC-K174-M	**Acetylcholinesterase (AchE) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	AchEcatalyzes the hydrolysis of acetylcholine to form choline, and choline react with dithio p-nitrobenzoic acid (DTNB) to form 5-mercapto-nitrobenzoic acid (TNB). TNB has an absorption peak at 412nm. And the activity of AchE is calculated by measuring the increasing rate of absorbance at 412nm.	1.225 U/mL	1.225-490 U/mL
	E-BC-K053-S	**Acetylcholinesterase (A-CHE) Activity Assay Kit** (Ask quote / Manual)	50Assays	Spectrophoto Meter		#N/A		
Enzyme Activity (Explore More)	E-BC-K010-M	**Acid Phosphatase (ACP) Activity Assay Kit** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, tissue	Disodium p-nitrobenzene phosphate (p-NPP), a widely used phosphatase chromogenic substrate, can form p- nitrophenol under the action of acid phosphatase. Under alkaline conditions, p-nitrophenol is yellow and has a maximum absorption peak at 405 nm. The darker of the yellow product is, the higher of the ACP activity is. Therefore, the activity of ACP can be calculated by measuring the OD value at 405 nm.	0.2 U/L	0.2–50 U/L
Enzyme Activity (Explore More)	E-BC-K094-M	**Acid Phosphatase (ACP) Activity Assay Kit** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, hydrothorax, Urine, cells, cell culture supernatant, Animal Tissue	Acid phosphatase decomposes disodium phenyl phosphate under acidic conditions to produce free phenol and phosphoric acid. Phenol acts with 4-aminoantipyrine in alkaline solution, and oxidizes to a derivative of red quinone by potassium ferricyanide. The activity of the ACP can be calculated by measuring the OD value at 520 nm.	1.40 U/100 mL	1.40-40 U/100 mL

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Enzyme Activity (Explore More)	E-BC-K094-S	**Acid Phosphatase (ACP) Activity Assay Kit** (Ask quote / Manual)	100Assays, 500Assays	Spectrophoto Meter	Serum, Plasma, Urine, tissue, cells	Acid phosphatase decomposes disodium phenyl phosphate under acidic conditions to produce free phenol and phosphoric acid. Phenol acts with 4-aminoantipyrine in alkaline solution, and oxidizes to a derivative of red quinone by potassium ferricyanide. The activity of the ACP can be calculated by measuring the OD value at 520 nm.	0.27 U/100 mL	0.27-40 U/100 mL
Enzyme Activity (Explore More)	E-BC-K197-M	**Adenosine Deaminase (ADA) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	serum, Plasma, Animal Tissue	Adenosine deaminase (ADA) can hydrolyzed the substrate adenosine to form hypoxanthine riboside, which is hydrolyzed by purine riboside phosphatase to produce hypoxanthine and phosphate ribose. Under the action of xanthine oxidase, hypoxanthine produces hydrogen peroxide, which produces red substance under the action of peroxidase, 4-aminotepyrine and color source. The red substance has the maximum absorption peak at 550 nm and the changes of absorbance is proportional to the activity of ADA.	0.03 U/L	0.03-99 U/L
	E-BC-K039-S	**Adenosinetriphosphatase (ATPase) Activity Assay Kit (Cell Membranes, Mitochondria, Microsomes Samples)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter		#N/A		
Enzyme Activity (Explore More)	E-BC-K235-M	**Alanine Aminotransferase (ALT/GPT) Activity Assay Kit (Reitman-Frankel Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue, cells, cell culture supernatant	ALT catalyze the amino conversion reaction between alanine and α-ketoglutaric acid to produce pyruvic acid and glutamic acid at pH 7.4 and 37℃. Then phenylhydrazine was added to form phenylhydrazone with pyruvic acid. Phenylhydrazone is reddish brown under alkaline conditions. ALT activity can be calculated by measuring the OD values at 510 nm.	0.75 IU/L	0.75-72.3 IU/L
Enzyme Activity (Explore More)	E-BC-K235-S	**Alanine Aminotransferase (ALT/GPT) Activity Assay Kit (Reitman-Frankel Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, cells, Animal Tissue	ALT catalyze the amino conversion reaction between alanine and α-ketoglutaric acid to produce pyruvic acid and glutamic acid at pH 7.4 and 37℃. Then phenylhydrazine was added to form phenylhydrazone with pyruvic acid. Phenylhydrazone is reddish brown under alkaline conditions. ALT activity can be calculated by measuring the OD values at 510 nm.	1.26 IU/L	1.26-72.3 IU/L
Enzyme Activity (Explore More)	E-BC-F038	**Alanine Aminotransferase (ALT/GPT) Activity Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, Animal Tissue	ALT catalyze the amino conversion reaction between alanine and α-ketoglutaric acid to produce pyruvic acid and glutamic acid. Under the action of pyruvate oxidase, pyruvic acid generates H2O2, which reacts with the non-fluorescent	0.01 U/L	0.01-0.83 U/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						substance to form fluorescent substance under the action of peroxidase. The activity of ALT can be calculated by measuring the increase of fluorescence value at the excitation wavelength of 535 nm and the emission wavelength of 590 nm.		
Quantitative (Explore More)	E-BC-K057-M	**Albumin (ALB) Colorimetric Assay Kit (Bromocresol Green Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma	Bromocresol green (BCG) is widely used as protein staining agent. BCG can combine the albumin in pH 4.0~4.2 to form an albumin-BCG complex. And the color changed from yellow to green. The depth of color is proportional to the concentration of albumin. The content of albumin in serum can be calculated indirectly by measuring the OD value at 630 nm.	0.08 g/L	0.08-15 g/L
Quantitative (Explore More)	E-BC-K057-S	**Albumin (ALB) Colorimetric Assay Kit (Bromocresol Green Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma	Bromocresol green (BCG) can combine with the albumin in pH 4.0~4.2 to form an albumin-BCG complex, which is yellowish-green. The depth of yellowish-green is proportional to the concentration of albumin. The serum albumin concentration can be calculated by measuring the OD value at 628 nm.	0.50 g/L	0.50-70 g/L
Enzyme Activity (Explore More)	E-BC-K091-M	**Alkaline Phosphatase (ALP) Activity Assay Kit** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, tissue, cells	Alkaline phosphatase decompose benzene disodium phosphate to produce free phenol and phosphoric acid. Phenol react with 4-aminopyrline in alkaline solution and oxidizes with potassium ferricyanide to form red quinone derivative. The enzyme activity can be calculated indirectly by measuring the OD value.	0.13 King unit/100 m	0.13-50 King unit/10
Enzyme Activity (Explore More)	E-BC-K091-S	**Alkaline Phosphatase (ALP) Activity Assay Kit** (Ask quote / Manual)	100Assays, 500Assays	Spectrophoto Meter	Serum, Plasma, Urine, tissue, cells	Alkaline phosphatase decompose benzene disodium phosphate to produce free phenol and phosphoric acid. Phenol react with 4-aminopyrline in alkaline solution and oxidizes with potassium ferricyanide to form red quinone derivative. The enzyme activity can be calculated indirectly by measuring the OD value.	0.2 King unit/100 mL	0.2-55.6 King unit/1
Enzyme Activity (Explore More)	E-BC-K009-M	**Alkaline Phosphatase (ALP) Activity Assay Kit (PNPP method)** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, Animal Tissue	Alkaline phosphatase (ALP) is a group of cytomembrane-related enzymes with hydrolysis and transfer activity, acting on a variety of phosphate substrates. ALP is a homologous dimerase and each catalytic site contains three metal ions. There are four isozymes in humans: tissue nonspecific ALP, intestinal ALP, placental ALP and genital cell ALP.	0.27 U/L	0.27-50.8 U/L
(Explore More)	E-BC-K003-S	**Angiotensin Converting Enzyme (ACE) Activity Assay**	100Assays	Serum, plasma,	Enzymes, Others	N-[3-(2-furyl)acryloyl]-L-phenylalanylglycylglycine (FAPGG) have the maximum absorption peak at 340 nm, angiotensin	27.5- 682 U/L	

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		Kit (Ask quote / Manual)		animal tissue		converting enzyme catalyze N-(3[2-Furyl]Acryloyl)-Phe-Gly-Gly to produce FAP and GG, and the absorbance at 340 nm will be decreased. The activity of ACE can be calculated indirectly by measuring the decrease in absorbance at 340 nm.		
Enzyme Activity (Explore More)	E-BC-K353-S	**Ascorbate Peroxidase (APX) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Plant tissue	Ascorbate Peroxidase (APX) can catalyze the reaction between ascorbic acid (ASA) and hydrogen peroxide (H2O2), and ASA can be oxidized to monodehydroascorbic acid (MDASA). The absorbance of solution at 290 nm will decline as the oxidation of ASA. The APX activity can be calculated by detecting the decrease of A290.	0.071 U/g tissue	0.071-47 U/g tissue
100 min (Explore More)	E-BC-K236-S	**Aspartate Amino transferase (AST/GOT) Activity Assay Kit (Reitman-Frankel Method)** (Ask quote / Manual)	100 Assays	Serum, plasma, animal tissue	Enzymes, Liver Biomarkers	AST enables alpha-ketoglutaric acid and aspartic acid to displace amino to form glutamic acid and oxaloacetic acid. Oxaloacetic acid can decarboxylate itself to form Pyroracemic acid during the reaction. Pyroracemic acid reacted with 2,4-dinitrophenylhydrazine (DNPH) to form 2,4-dinitrophenylhydrazone showing reddish brown in alkaline solution. Measure the OD values and calculate the enzyme activity.	0.38-72.30 IU/L	
Enzyme Activity (Explore More)	E-BC-K236-M	**Aspartate Aminotransferase (AST/GOT) Activity Assay Kit (Reitman-Frankel Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue, cells, cell culture supernatant	AST/GOT enables alpha-ketoglutaric acid and aspartic acid to displace amino and keto groups to form glutamic acid and oxaloacetic acid. Oxaloacetic acid can decarboxylate itself to form Pyroracemic acid during the reaction. Pyroracemic acid reacted with 2,4-dinitrophenylhydrazine(DNPH) to form 2,4, dinitrophenylhydrazone showing reddish brown in alkaline solution. Measure the OD values and calculate the enzyme activity.	1.1 IU/L	1.1-72.3 IU/L
Quantitative (Explore More)	E-BC-F002	**ATP Chemiluminescence Assay Kit** (Ask quote / Manual)	96T, 48T	Chemilumine scence immunoassay analyzer, Multifunction al microplate Reader	Animal Tissue	Under the catalyzation of luciferase, ATP react with luciferin and emits fluorescence, and the fluorescence intensity is proportional to the concentration of ATP within a certain range.	0.003 µmol/L	0.003-10 µmol/L
Quantitative (Explore More)	E-BC-K157-M	**ATP Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Animal Tissue, cells	Creatine kinase catalyzes adenosine triphosphate and creatine to produce creatine phosphate. The content of phosphocreatine was determined by colorimetric method to reflect the content of ATP.	0.01 mmol/L	0.03-1.5 mmol/L

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Quantitative (Explore More)	E-BC-K157-S	**ATP Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Tissue, cells	Creatine Kinase catalyzes adenosine triphosphate and creatine to produce creatine phosphate, then detected by phosphomolybdic acid colorimetry.	0.01 mmol/L	0.01-1.5 mmol/L
Quantitative (Explore More)	E-BC-K318-M	**BCA Protein Colorimetric Assay Kit** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, cell culture supernatant, tissue, cells	Cu2+ can be reduced to Cu+ by protein in alkaline condition. Cu+ can combine with BCA reagent and form purple complex, which has a maximum absorption peak at 562 nm. The absorbance value is proportional to the protein concentration. Therefore, the protein concentration can be calculated according to the OD value.	0.0165 mg/mL	0.0165-1 mg/mL
Quantitative (Explore More)	E-BC-K165-M	**Biuret Protein Colorimetric Assay Kit** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, tissue	Any compound that contains two -CONH2 in the molecule can react with alkaline copper solution to form a purple complex, which is known as the biuret reaction. Many peptide bonds (-CONH-) in protein molecules can perform this reaction, and the color degree of all kinds of proteins are essentially the same.	0.58 g/L	0.58-100 g/L
Quantitative (Explore More)	E-BC-K165-S	**Biuret Protein Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 500Assays	Spectrophoto Meter	Serum, Plasma, tissue	Any compound that contains two -CONH2 in the molecule can react with alkaline copper solution to form a purple complex, which is known as the biuret reaction. Many peptide bonds (-CONH-) in protein molecules can perform this reaction, and the color degree of all kinds of proteins are essentially the same.	0.373 g/L	0.373-80 g/L
Quantitative (Explore More)	E-BC-K145-M	**Blood Ammonia Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma	Blood protein can be precipitated with protein precipitator, and enzyme activity will be destroyed, which can prevent the formation of free ammonia in vitro. Most interfering color substances were removed at the same time, indigo was formed in non-protein filtrate by Berthelot reaction, and the color depth was proportional to the content of blood ammonia. Blood ammonia content can be determined by comparing with standard solution.	0.01 mmol/L	0.01-2.5 mmol/L
Quantitative (Explore More)	E-BC-K145-S	**Blood Ammonia Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma	Blood protein can be precipitated with protein precipitator, and enzyme activity will be destroyed, which can prevent the formation of free ammonia in vitro. Most interfering color substances were removed at the same time, indigo was formed in non-protein filtrate by Berthelot reaction, and the color depth was proportional to the content of blood ammonia. Blood ammonia content can be determined by comparing with standard solution.	0.01 mmol/L	0.01-2.0 mmol/L
Quantitative	E-BC-K168-M	**Bradford Protein Colorimetric**	96T, 500Assays	Microplate	Serum,	Coomassie brilliant blue G-250 is red under the free state,	0.046 mg/mL	0.046-0.6

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(Explore More)		**Assay Kit** (Ask quote / Manual)		Reader	Plasma, Animal Tissue	and it has the maximum absorbance at 465 nm. When the Coomassie brilliant blue G-250 combined to protein, the compound will have the maximum at 595 nm. The absorbance value is directly proportional to the protein content, so the concentration of total protein can be calculated directly by measuring the OD value at 595 nm.		mg/mL
Quantitative (Explore More)	E-BC-K168-S	**Bradford Protein Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 500Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue	Coomassie brilliant blue G-250 is red under the free state, and it has the maximum absorbance at 465 nm. When the Coomassie brilliant blue G-250 combined to protein, the compound will have the maximum at 595 nm. The absorbance value is directly proportional to the protein content, so the concentration of total protein can be calculated directly by measuring the OD value at 595 nm.	0.026 mg/mL	0.026-1.2 mg/mL
Enzyme Activity (Explore More)	E-BC-K212-S	**Ca^{2+}-ATPase Activity Assay Kit** (Ask quote / Manual)	100 Assays, 50 Assays	Spectrophoto Meter	Animal Tissue	ATPase exists on the membrane of tissue cells and organelles. It is a kind of protease on the biological membrane which plays an important role in material transport, energy conversion and information transmission. Ca2+ which participates in the regulation of different enzyme systems and cell activities plays many important roles in cells. The flow of Ca2+ depends on the Ca2+ -ATPase on the cell membrane, and Ca2+ -ATPase consumes ATP to generate the energy needed for ion transport.	0.8 U/g wet weight	0.8-41 U/g wet weight
Quantitative (Explore More)	E-BC-K103-M	**Calcium (Ca) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, cell culture supernatant, tissue, cells	Calcium ion in the sample bind to Methyl Thymol Blue (MTB) in alkaline solution and form blue complex. The blue complex has a specific absorption peak at 715nm and calcium content can be calculated by measuring the OD value at 610 nm.	0.07 mmol/L	0.07-1.2 mmol/L
Enzyme Activity (Explore More)	E-BC-K031-M	**Catalase (CAT) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, cells, cell culture supernatant, tissue	The reaction that catalase (CAT) decomposes H2O2 can be quickly stopped by ammonium molybdate. The residual H2O2 reacts with ammonium molybdate to generate a yellowish complex. CAT activity can be calculated by production of the yellowish complex at 405 nm.	1.12 U/mL	1.12 -150 U/mL
Enzyme Activity (Explore More)	E-BC-K031-S	**Catalase (CAT) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, cells, tissue	The reaction that catalase (CAT) decomposes H2O2 can be quickly stopped by ammonium molybdate. The residual H2O2 reacts with ammonium molybdate to generate a yellowish complex. CAT activity can be calculated by production of the yellowish complex at 405 nm.	0.27 U/mL	0.27-155.4 U/mL
Enzyme	E-BC-F006	**Catalase (CAT) Activity**	96T	Fluorescence	Serum,	Catalase can decompose H2O2 to generate H2O and O2, the	0.01 U/L	0.01-6.51 U/L

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Activity (Explore More)		**Fluorometric Assay Kit** (Ask quote / Manual)		Microplate Reader	Plasma, Animal Tissue	residual H2O2 in the detection system react with the fluorescent substance, and the content of residual H2O2 is proportional to the fluorescence intensity at the excitation wavelength of 535 nm and emission wavelength of 587 nm, the catalase activity is inversely proportional to the fluorescence intensity.		
Quantitative (Explore More)	E-BC-K189-M	**Chlorine (Cl) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	Chloride ion in biological fluids are replaced by the mercury ions in mercury thiocyanate through ion replacement, which resulted in the formation of difficult-to-dissociate mercury chloride. The substituted thiocyanate ions were combined with ferric nitrate to form a red complex. The content of chlorine ion can be calculated indirectly by measuring the OD value at 460 nm.	1 mmol/L	1.0-60 mmol/L
Enzyme Activity (Explore More)	E-BC-K125-M	**Choline Acetyltransferase (ChAT) Activity Assay Kit (Tissue Samples)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Animal Tissue	Acetyl-CoA can react with choline under the catalysis of choline acetyltransferase (ChAT) to produce coenzyme A (CoA), CoA can combine with the 4, 4-dithiopyridine. The activity of ChAT can be calculated indirectly by measuring the OD value at 324 nm.	1.21 U/g fresh weigh	1.21-40 U/g fresh we
Enzyme Activity (Explore More)	E-BC-K125-S	**Choline Acetyltransferase (ChAT) Activity Assay Kit (Tissue Samples)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Animal Tissue	Acetyl-CoA can react with choline under the catalysis of choline acetyltransferase (ChAT) to produce coenzyme A (CoA), CoA can combine with the 4, 4-dithiopyridine. The activity of ChAT can be calculated indirectly by measuring the OD value at 324 nm.	1.21 U/g fresh weigh	1.21-40 U/g fresh we
Enzyme Activity (Explore More)	E-BC-K052-S	**Cholinesterase (CHE) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Whole blood, serum, Plasma, tissue, cells	Cholinesterase breaks down acetylcholine into choline and acetic acid. Acetylcholine that is not hydrolyzed by cholinesterase reacts with basic hydroxylamine to form acetamidamine. It reacts in an acidic solution to form a brown-red hydroxamate iron complex. The color depth is directly proportional to the amount of remaining acetylcholine, which can be colorimetrically quantified. Cholinesterase activity was calculated.	1.17 U/mL	1.17-160 U/mL
Quantitative (Explore More)	E-BC-K351-M	**Citric Acid (CA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue, mitochondria	In biochemistry, citric acid is an intermediate in the citric acid cycle and plays an important role in metabolism. Citric acid levels in blood and urine are affected by factors such as age, gender, diet, citric acid precursors, and parathyroid hormone and sex hormones.	0.06 mmol/L	0.06-2.0 mmol/L
Quantitative (Explore More)	E-BC-K351-S	**Citric Acid (CA) Colorimetric Assay Kit**	100Assays, 50Assays	Spectrophoto Meter	Tissue, mitochondria,	In acidic condition, Cr (VI) will be reduced to Cr3+, Cr3+ reacts with citric acid. And the product has a characteristic	0.05 mmol/L	0.05-5.0 mmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		(Ask quote / Manual)			other liquid samples	absorption peak at 545 nm, therefore the content of citric acid in sample can be calculated by measuring the absorbance value at 545 nm.		
Quantitative (Explore More)	E-BC-K300-M	**Copper (Cu) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma	In acidic condition, the copper ion in the sample react with 3,5-DiBr-PAESA to form a purple complex which has a maximum absorption peak at 580 nm. And copper ion content can be calculated indirectly by measuring the OD value at 580 nm.	1.84 μmol/L	1.84-60 μmol/L
Enzyme Activity (Explore More)	E-BC-K558-S	**Creatine kinase (CK) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue, cells	Creatine kinase (CK) catalyze creatine phosphate and ADP to produce creatine and ATP. Hexokinase catalyze creatine and glucose to produce glucose-6-phosphate. Glucose-6-phosphate dehydrogenase (G-6-PD) catalyze glucose-6-phosphate and NADP+ to produce NADPH which have a maximum absorption peak at 340 nm. The CK activity can be calculated by measuring the OD values at 340 nm.	3.7 U/L	3.7-160 U/L
Quantitative (Explore More)	E-BC-K188-M	**Creatinine (Cr) Colorimetric Assay Kit (Sarcosine Oxidase Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine	Creatinine (Cr) can be catalyzed by creatinase and generates creatine. Creatine can be hydrolyzed into sarcosine and urea by creatinase. The sarcosine can be catalyzed by sarcosine oxidase and form glycine, formaldehyde and hydrogen peroxide. The reaction between hydrogen peroxide, 2,4-(6-Tri-iodine-3- hydroxybenzoic acid) and 4-ampyrone can be catalyzed by peroxidase and form pink compound. Creatinine content can be calculated indirectly by measuring the OD value at 515 nm.	9.4 μmol/L	38.2-800 μmol/L
Enzyme Activity (Explore More)	E-BC-K022-M	**CuZn/Mn Superoxide Dismutase (CuZn-SOD/Mn-SOD) Activity Assay Kit (Hydroxylamine Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, cells, cell culture supernatant, tissue	Superoxide anion (O2•-) produced by xanthine and xanthine oxidase system can oxidize hydroxylamine to form nitrite which appear purplish red after chromogenic reaction. The SOD in the sample has a specific inhibitory effect on superoxide anion (O2•-), can reduce the content of nitrite. The OD value is lower than control and the activity of SOD is calculated through the formula. There are two kinds of SOD (CuZn-SOD, Mn-SOD) in the cells of higher animals, and the sum of them is equal to the total SOD. The activity of Mn-SOD in the sample will lost after sample pretreatment, but the activity of CuZn-SOD will not.	1.35 U/mL	1.35-62 U/mL
Enzyme Activity (Explore More)	E-BC-K022-S	**CuZn/Mn Superoxide Dismutase (CuZn-SOD/Mn-SOD) Activity Assay Kit**	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Urine, cells, cell	Superoxide anion (O2•-) produced by xanthine and xanthine oxidase system can oxidize hydroxylamine to form nitrite which appear purplish red after chromogenic reaction. The	2.03 U/mL	2.03-155 U/mL

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		(Hydroxylamine Method) (Ask quote / Manual)			culture supernatant, tissue	SOD in the sample has a specific inhibitory effect on superoxide anion (O2•-), can reduce the content of nitrite. The OD value is lower than control and the activity of SOD is calculated through the formula. There are two kinds of SOD (CuZn-SOD, Mn-SOD) in the cells of higher animals, and the sum of them is equal to the total SOD. The activity of Mn-SOD in the sample will lost after sample pretreatment, but the activity of CuZn-SOD will not.		
Quantitative (Explore More)	E-BC-K352-M	**Cysteine (Cys) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue, cells	Phosphotungstic acid can be reduced by Cys and form tungsten blue, which has an absorption peak at 600 nm. Cys content can be calculated with the absorbance at 600 nm.	0.03 mmol/L	0.07-2.0 mmol/L
Quantitative (Explore More)	E-BC-K761-M	**Direct Bilirubin (DBIL) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Animal serum	Bilirubin is one of the important components of bile. It is the degradation product of hemoglobin in various heme proteins under the action of a series of enzymes. It is important to the digestion and absorption of lipids and the formation of yellow distemper. Bilirubin comes in two forms: water-soluble and water-insoluble. Bilirubin has powerful antioxidant, anti-inflammatory and autoimmune properties. The concentration of bilirubin in human body is related to sex, drug intake, age and so on. Low serum bilirubin is directly related to diabetes, metabolic syndrome, cardiovascular disease and other pathological states. However, high bilirubin is indicative of hemolysis, jaundice, Gilbert syndrome, hepatitis, drug toxicity, and possible bile duct obstruction.	0.6 μmol/L	0.6-50 μmol/L
(Explore More)	E-BC-K081-M	**Direct bilirubin (D-BIL) Colorimetric Assay Kit(Chemical Oxidation Method)** (Ask quote / Manual)	96T	Microplate Reader		#N/A		
Quantitative (Explore More)	E-BC-K002-M	**D-Lactic Acid/Lactate Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	Using NAD+ as H+ receptor, D-lactate dehydrogenase (LDH) catalyzes the reaction of D-lactic acid and NAD+ to generate pyruvic acid and NADH respectively. NBT is reduced to a kind of purple compound during the reaction. Measure the OD value at 530 nm, and the concentration of D-lactic acid can be calculated.#N/A	0.06 mmol/L	0.06-8.0 mmol/L
Quantitative (Explore More)	E-BC-K018-S	**D-Xylose Colorimetric Assay**	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Urine	D-xylose can produce furfural by dehydration in strong acid solution. The generated furfural reacts with Phloroglucinol to	0.007 mmol/L	0.007-4 mmol/L

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		Kit (Ask quote / Manual)				form pink compounds. The content of D-xylose can be calculated by colorimetric assay at 554 nm.		
Quantitative (Explore More)	E-BC-K891-M	**Ethanol Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, wine	Ethanol dehydrogenase can catalyze oxidative dehydrogenation of ethanol to acetaldehyde, and NAD+ is reduced to produce NADH. NADH, under the action of 1-mPMS, transfer electrons to WST-8 to produce the yellow product, which has a characteristic absorption peak at 450 nm. Therefore, ethanol content can be quantified by measure the OD value at 450 nm.	0.27 μmol/mL	0.27-17.0 μmol/mL
Quantitative (Explore More)	E-BC-K304-S	**Ferrous Ion Colorimetric Assay Kit** (Ask quote / Manual)	100 Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue	Under the action of acidic solution and reductant, ferric ions can be separated from transferrin in serum, and reduced into ferrous ions (Fe2+). The latter then bind to bipyridine and form pink complexes. The concentration of iron can be calculated by measuring the OD value at 520 nm indirectly.	0.08 mg/L	0.08-60 mg/L
Quantitative (Explore More)	E-BC-K773-M	**Ferrous Iron Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, tissue, cells	Ferrous ions (Fe2+) in samples can bind with probe to form complexes, which has a maximum absorption peak at 593 nm. The concentration of iron can be calculated by measuring the OD value at 593 nm indirectly.	0.4 μmol/L	0.4-50 μmol/L
Quantitative (Explore More)	E-BC-K1100-M	**Formate Colorimetric Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, Animal Tissue	Formic acid is the simplest carboxylic acid, whose chemical formula is CH2O2. It is often used as an antimicrobial/preservative in livestock feed. Formic acid can block some of the decay processes in feed, making the nutritional value of feed maintain longer. Under normal circumstances, the physiological concentration of formic acid is low and easy to metabolize, but in the case of methanol poisoning, the concentration can reach 5 mmoL/L. Similarly, long-term exposure to excessive levels of formaldehyde can also increase the content of formic acid in blood and urine.	8.20 μmol/L	8.20-800 μmol/L
Quantitative (Explore More)	E-BC-K004-M	**Free Cholesterol (FC) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue	Free cholesterol produces 4-cholestenone and hydrogen peroxide under the oxidation of cholesterol oxidase. In the presence of 4-aminoamylpyridine and phenol, peroxidase catalyze hydrogen peroxide to form red quinone compounds of benzoquinone imine phenizone. The color depth of the generated quinones is directly proportional to the cholesterol content.	0.07 mmol/L	0.07-24 mmol/l
Quantitative (Explore More)	E-BC-F039	**Free Fatty Acids (FFA) Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, Animal Tissue	Free fatty acids produce acyl coenzyme A in the presence of acyl synthase, which produces hydrogen Free fatty acids produce acyl coenzyme A in the presence of acyl synthase,	0.58 μmol/L	0.58-20 μmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						which produces hydrogen peroxide in the presence of acyl oxidase. In the presence of the enzyme and probe, hydrogen peroxide react to produce the fluorescence substrate. The fluorescence intensity at the excitation wavelength of 535 nm and emission wavelength of 590 nm is directly proportional to the concentration of free fatty acids.		
(Explore More)	E-BC-K134-S	**Fructose Colorimetric Assay Kit** (Ask quote / Manual)	50Assays	Spectrophoto Meter		#N/A		
Quantitative (Explore More)	E-BC-K234-M	**Glucose (Glu) Colorimetric Assay Kit (GOD-POD Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma	Glucose oxidase can catalyze the oxidation of glucose to gluconic acid to produce hydrogen peroxide. In the presence of chromogenic oxygen receptors, peroxidase catalyzes hydrogen peroxide and oxidizes pigment sources to form colored substances. Measure the OD value at 505 nm and glucose content can be calculated indirectly.	0.04 mmol/L	0.04-30 mmol/l
Quantitative (Explore More)	E-BC-K234-S	**Glucose (Glu) Colorimetric Assay Kit (GOD-POD Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma	Glucose oxidase can catalyze the oxidation of glucose to gluconic acid to produce hydrogen peroxide. In the presence of chromogenic oxygen receptors, peroxidase catalyzes hydrogen peroxide and oxidizes pigment sources to form colored substances. Measure the OD value at 505 nm and glucose content can be calculated indirectly.	0.05 mmol/L	0.05-30 mmol/l
Quantitative (Explore More)	E-BC-F037	**Glucose (GLU) Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, Urine	Glucose oxidase can catalyze the oxidation of glucose into gluconic acid and produce hydrogen peroxide. In the presence of peroxidase, hydrogen peroxide reacts with the non-fluorescent substance to form fluorescent substance. The glucose content can be calculated indirectly by measuring the fluorescence intensity at the excitation wavelength of 535 nm and the emission wavelength of 590 nm.	0.1 µmol/L	0.1-20 µmol/L
Quantitative (Explore More)	E-BC-F041	**Glucose Uptake Fluorometric Assay Kit** (Ask quote / Manual)	96T	Fluorescence microplate Reader	Cells	2-DG is up-taken by the cells, converted to 2-DG-6P, which is catalyzed by glucose dehydrogenase to produce 6PDG. Meanwhile, NADP+ is converted to NADPH. The generated NADPH converts the probe into fluorescent substances under the action of myocardial yellow transferase. The glucose uptake can be calculated by measuring the fluorescence intensity at the excitation wavelength of 530 nm and the emission wavelength of 590 nm.	0.02 nmol/µL	0.02-0.5 nmol/µL
Quantitative	E-BC-K011-M	**Glucose-6-phosphate (G6P)**	96T	Microplate	Serum,	Glucose-6-phosphate (G6P) is a molecule generated by	5.6 µmol /L	5.6-500 µmol/L

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
(Explore More)		**Colorimetric Assay Kit** (Ask quote / Manual)		Reader	Plasma, Animal Tissue	phosphorylation of hydroxyl groups on the sixth carbon of glucose under the catalysis of hexokinase. It is a common small molecule of sugar metabolism in cells and participates in biochemical pathways such as glycolysis and pentose phosphate pathway. In the first reaction of glycolysis, glucose is catalyzed by hexokinase to produce glucose-6-phosphate, which is then catalyzed by phosphoglucose isomerase to form fructose-6-phosphate to continue the other steps of glycolysis: In the pentose phosphate pathway, glucose-6-phosphate is the first substrate, and this process is also the main way to generate NADPH. In addition to these two metabolic pathways, glucose-6-phosphate can also be converted into glycogen or starch and stored.		
Enzyme Activity (Explore More)	E-BC-K056-M	**Glucose-6-Phosphate Dehydrogenase (G-6-PD) Activity Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, Animal Tissue	Under the presence of G6PDH, glucose-6-phosphoric acid is oxidized to 6-PG. In this reaction, NADP+ is reduced to NADPH. Under the action of electron coupling reagent 1-MPMS, NADPH reducts wST-8 to form orange formazan, which has the maximum absorption peak at about 450 nm. Formazan generated in the reaction system is proportional to the activity of G6DPH in the sample.	0.01 U/L	
Quantitative (Explore More)	E-BC-K118-M	**Glutamic Acid Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue, cells, cell culture supernatant	Glutamate is a dicarboxylic acid, the most abundant amino acid in the cell, which can be converted into aminobutyric acid (GABA), ornithine, ketoglutarate, glucose or glutathione. Glutamate links carbohydrate and amino acid metabolism through the tricarboxylic acid (TCA) cycle. In the liver, it can regulate the rate of `ammonia to urea. In the central nervous system, it can act as an excitatory neurotransmitter.	6.43 μmol/L	6.43-407 μmol/L
Quantitative (Explore More)	E-BC-K118-S	**Glutamic Acid Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue, cells, cell culture supernatant	Glutamic acid can react with NAD+ under the catalysis of glutamate dehydrogenase to produce α-ketoglutaric acid, NADH and NH4+. NADH has the maximum absorption at 340 nm. And glutamic acid content can be calculated by measuring the change of NADH.	4.00 μmol/L	4.00-450 μmol/L
Enzyme Activity (Explore More)	E-BC-K096-M	**Glutathione Peroxidase (GSH-Px) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, cells, cell culture supernatant, tissue	Glutathione peroxidase (GSH-Px) can promote the reaction of hydrogen peroxide (H2O2) and reduced glutathione to produce H2O and oxidized glutathione (GSSG). The activity of glutathione peroxidase can be expressed by the rate of enzymatic reaction. The activity of glutathione can be	17.17 U	17.17-518.32 U

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						calculated by measuring the consumption of reduced glutathione. Hydrogen peroxide (H2O2) and reduced glutathione can react without catalysis of GSH-Px, so the portion of GSH reduction by non-enzymatic reaction should be subtracted. GSH can react with dinitrobenzoic acid to produce 5-thio-dinitrobenzoic acid anion, which showed a stable yellow color. Measure the absorbance at 412nm, and calculate the amount of GSH.		
Enzyme Activity (Explore More)	E-BC-K096-S	**Glutathione Peroxidase (GSH-Px) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, cells, cell culture supernatant, tissue	Glutathione peroxidase (GSH-Px) can promote the reaction of hydrogen peroxide (H2O2) and reduced glutathione to produce H2O and oxidized glutathione (GSSG). The activity of glutathione peroxidase can be expressed by the rate of enzymatic reaction. The activity of glutathione can be calculated by measuring the consumption of reduced glutathione. Hydrogen peroxide (H2O2) and reduced glutathione can react without catalysis of GSH-Px, so the portion of GSH reduction by non-enzymatic reaction should be subtracted. GSH can react with dinitrobenzoic acid to produce 5-thio-dinitrobenzoic acid anion, which showed a stable yellow color. Measure the absorbance at 412nm, and calculate the amount of GSH.	12.65 U	12.65-387 U
Enzyme Activity (Explore More)	E-BC-K099-S	**Glutathione Reductase (GR) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue, cells	With the coenzyme as hydrogen donor, GSSG can be reduced to GSH under the catalysis of GR. Then the GSH content increased and NADPH decreased. The decrease of NADPH absorbance can be measured at 340 nm. The activity of GR can be calculated by detecting the change of NADPH.	6.2 U/L	6.2-320 U/L
	E-BC-K172-S	**Glutathione Reductase Activity Coefficient (GRAC) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays	Spectrophoto Meter		#N/A		
Enzyme Activity (Explore More)	E-BC-K278-S	**Glutathione-S-Transferase (GST) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue, cells	GST can catalyze the binding of reduced glutathione (GSH) to dinitrobenzene (CDNB) and the product have an absorption peak at 340 nm. The activity of GSH-ST can be calculated by measuring the increasing rate of absorbance at 340 nm.	1 U/L	1-79 U/L
Enzyme Activity (Explore More)	E-BC-K800-M	**Glutathione-S-Transferase (GST) Activity Assay Kit(DTNB method)**	96T	Microplate Reader	Serum, Plasma, Animal Tissue	Glutathione S-transferase is a kind of enzyme related to liver detoxification, which is often used as an indicator of liver injury. GST can resist the damage of endogenous and exogenous electronophilic substances, and plays an	2.1 U/L	2.1-92.8 U/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		(Ask quote / Manual)				important role in the anti-tumor process.		
Quantitative (Explore More)	E-BC-F040	**Glycogen Fluorometric Assay Kit** (Ask quote / Manual)	96T	Fluorescence microplate Reader	Animal liver and muscle tissue	Glycogen produces glucose under the action of starch glycosidase, and glucose is catalyzed by glucose oxidase to produce hydrogen peroxide. In the presence of the peroxidase, hydrogen peroxide be oxidized to produce the fluorescence substrate. The fluorescence intensity at the excitation wavelength of 535 nm and emission wavelength of 587 nm is proportional to the glycogen content.	0.06 μg/mL	0.06-4.0 μg/mL
Quantitative (Explore More)	E-BC-K073-S	**Glycogen Colorimetric Assay Kit (Liver/Muscle Samples)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Animal liver, muscle	Under the presence of concentrated sulfuric acid, glycogen can be dehydrated to furfural derivatives. Furfural derivatives can form blue compound with anthracenone. The concentration of the compound can be measured by colorimetric quantification at 620 nm with glucose standard buffer of same treatment. Glycogen is quite stable in concentrated alkali solution. Heating the tissue sample in concentrated alkali solution before color development will remove other components and keep the glycogen.	1.80 mg/g liver tiss	1.80-180 mg/g liver
Enzyme Activity (Explore More)	E-BC-K692-S	**Glycolate Oxidase Activity Assay Kit** (Ask quote / Manual)	100 Assays, 50 Assays	Spectrophoto Meter	plant tissue	Glycolate oxidase catalyzes sodium glycolate substrate to form glyoxylic acid, which reacts with phenylhydrazine hydrochloride to form phenylhydrazone glyoxalate. The substance has an absorption peak at 324 nm, and its OD value is proportional to the concentration of phenylhydrazone glyoxalate in a certain range, and the amount of phenylhydrazone generated reflects the activity of glycolate oxidase.	0.3 U/mL	0.3-350 U/mL
Enzyme Activity (Explore More)	E-BC-K122-S	**H^+K^+-ATPase Activity Assay Kit** (Ask quote / Manual)	100Assays, 200Assays	Spectrophoto Meter	Animal Tissue, cells	ATPase can decompose ATP to produce ADP and inorganic phosphorus. The activity of ATPase can be expressed by measuring the production amount of inorganic phosphorus in unit time. The inorganic phosphorus reacts with ammonium molybdate in acidic solution to form ammonium molybdate compound, which is reduced with reducing agent to form molybdenum blue, and has absorption peak at 660 nm. Determine the concentration of molybdenum blue to calculate the amount of inorganic phosphorus.		
Quantitative (Explore More)	E-BC-K355-M	**H2S Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	H2S can react with acetate solution to form ZnS which can be dissolved in alkaline solution. In the presence of Fe3+, methylene blue can be formed. Methylene blue has a maximum absorption peak at 665 nm. H2S content can be	6.73 μmol/L	6.82-100 μmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						calculated indirectly by measuring the OD value at 665 nm.		
Quantitative (Explore More)	E-BC-K221	**High-density Lipoprotein Cholesterol (HDL-C) Colorimetric Assay Kit (Double reagents)** (Ask quote / Manual)	96T	Microplate Reader, Biochemistry analyzer	Serum, Plasma, cells, culture supernatant, tissue	The generated red purple pigment have a maximum absorption peak at 546 nm. Measure the OD value at 546 nm and the HDL-C content in the sample can be calculated.		0.065-3.8 mmol/L
Quantitative (Explore More)	E-BC-K222-S	**High-density Lipoprotein Cholesterol (HDL-C) Colorimetric Assay Kit (Double reagents)** (Ask quote / Manual)	100Assays	Spectrophoto Meter	Serum, Plasma, cells, culture supernatant, tissue	The generated red purple pigment have a maximum absorption peak at 546 nm. Measure the OD value at 546 nm and the HDL-C content in the sample can be calculated.		0.065-3.8 mmol/L
Quantitative (Explore More)	E-BC-K143	**Homocysteine (Hcy) Colorimetric Assay Kit (Enzyme Circulation Method)** (Ask quote / Manual)	100Assays	Biochemistry analyzer, Spectrophoto Meter	Serum	Oxidized homocysteine (HCY) is reduced to free homocysteine by triethyl phosphine (TCEP), and the free homocysteine reacts with substrate to generate adenosine. The generated adenosine is immediately dehydrogenated into inosine and ammonia, and the ammonia is further react with NADH under the catalysis of glutamate dehydrogenase to convert NADH to NAD+. The decrease in absorbance at 340 nm caused by the decline of NADH is proportional to the concentration of homocysteine in the sample.		0-50 µmol/L
Quantitative (Explore More)	E-BC-K102-M	**Hydrogen Peroxide (H_2O_2) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, tissue, cells	Hydrogen peroxide can react with ammonium molybdate to form a yellow complex which has a maximum absorption peak at 405 nm. H2O2 content can be calculated by measuring the absorbance value at 405 nm.	0.41 mmol/L	0.41-125 mmol/L
Quantitative (Explore More)	E-BC-K102-S	**Hydrogen Peroxide (H_2O_2) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, cell culture supernatant, tissue, cells	Hydrogen peroxide can react with ammonium molybdate to form a yellow complex which has a maximum absorption peak at 405 nm. H2O2 content can be calculated by measuring the absorbance value at 405 nm.	1.5 mmol/L	1.5-150 mmol/l
Quantitative (Explore More)	E-BC-F001	**Hydrogen Peroxide (H2O2) Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, tissue, cells	In the presence of peroxidase, hydrogen peroxide reacts with the fluorescent probe, and the fluorescence intensity at the excitation wavelength of 535 nm and the emission wavelength of 587 nm is proportional to the hydrogen peroxide concentration.	0.02 µmol/L	0.02-10 µmol/L
(Explore More)	E-BC-K042-S	**Hydroxyl Free Radical (-OH) Colorimetric Assay Kit** (Ask quote / Manual)	50Assays	Spectrophoto Meter		#N/A		

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
Quantitative (Explore More)	E-BC-K527-M	**Hydroxyl Free Radical Scavenging Capacity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	Hydroxyl radical is a kind of reactive oxygen species, which can kill red blood cells, degrade DNA, cell membrane and polysaccharide compounds, causing damage to cell structure and function, and then leading to metabolic disorders in the body to cause diseases. The scavenging ability of hydroxyl free radical is one of the important indexes of the antioxidant ability of samples. It has been widely used in the research of antioxidant health care products and drugs.		
Quantitative (Explore More)	E-BC-K062-S	**Hydroxyproline (Hyp) Colorimetric Assay Kit (Acid hydrolysis Method)** (Ask quote / Manual)	50Assays	Spectrophoto Meter	Animal Tissue	Hydroxyproline can produce oxidation product under the action of oxidizing agent. The generated oxidation product can react with dimethylaminobenzaldehyde and present burgundy. The concentration of hydroxyproline can be calculated by measuring the OD value at 550 nm.	0.01μg/mL	0.01-20μg/mL
Quantitative (Explore More)	E-BC-K061-S	**Hydroxyproline (Hyp) Colorimetric Assay Kit (Alkali hydrolysis Method)** (Ask quote / Manual)	50Assays	Spectrophoto Meter	Serum (Plasma), tissue, cells, culture supernatant, body fluids	The oxidation product which produced by hydroxyproline under the action of oxidant react with dimethylaminobenzaldehyde and show a purplish red color. The content of hydroxyproline can be calculated by measuring the OD value at 550 nm.	0.01μg/mL	0.01-20μg/mL
Enzyme Activity (Explore More)	E-BC-K001-M	**Inhibition And Production Of Superoxide Anionic Colorimetric Assay Kit (WST-1 Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, cells, cell culture supernatant, leucocyte	Superoxide anion free radicals are produced through the reaction system of xanthine and xanthine oxidase. WST-1 (a water-soluble tetrazolium salt) can react with the generated superoxide anion to produce water-soluble formazan. When the tested sample contains the superoxide anion free radical inhibitor, it can inhibit the formation of formazan. When the tested sample contains the substance that produces superoxide anion free radical, it can promote the formation of formazan dye. By colorimetric analysis of WST-1 products, the units of activity of inhibition or production of superoxide anion radical in samples can be calculated.		
Quantitative (Explore More)	E-BC-K139-M	**Iron Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, tissue	Under the action of acidic solution and reductant, ferric ions can be separated from transferrin in serum, and reduced into ferrous ions (Fe2+). The latter then bind to bipyridine and form pink complexes. The concentration of iron can be calculated by measuring the OD value at 520 nm indirectly.	0.08 mg/L	0.29-10 mg/L
Quantitative (Explore More)	E-BC-K139-S	**Iron Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, tissue	Under the action of acidic solution and reductant, ferric ions can be separated from transferrin in serum, and reduced into ferrous ions (Fe2+). The latter then bind to bipyridine and	0.072 mg/L	0.072-60 mg/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						form pink complexes. The concentration of iron can be calculated by measuring the OD value at 520 nm indirectly.		
Enzyme Activity (Explore More)	E-BC-K131-M	**Lactase Activity Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Animal Tissue	Lactase decomposes lactose to produce glucose. Under the action of enzyme, glucose produces hydrogen peroxide. In the presence of chromogenic oxygen receptors, peroxidase catalyzes hydrogen peroxide to produce colored substances. Lactase activity can be calculated by measuring the OD value at 505 nm.	3.94 U/mL	12.5-2000 U/mL.
Enzyme Activity (Explore More)	E-BC-K131-S	**Lactase Activity Assay Kit** (Ask quote / Manual)	50Assays	Spectrophoto Meter, Microplate Reader	Glycolysis & Carbohydrates , Amino acids & proteins			
Enzyme Activity (Explore More)	E-BC-K046-M	**Lactate Dehydrogenase (LDH) Activity Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, hydrothorax, tissue, cells	Using coenzyme I as a hydrogen carrier, LDH catalyze lactic acid to produce pyruvate. Pyruvate reacted with 2, 4-dinitrophenylhydrazine to form pyruvate dinitrophenylhydrazone, which was red-brown in alkaline solution, and the color depth was proportional to pyruvate concentration. The activity of LDH could be calculated by measuring OD value.	6 U/L	6-1000 U/L
Enzyme Activity (Explore More)	E-BC-K046-S	**Lactate dehydrogenase (LDH) Activity Assay Kit** (Ask quote / Manual)	100 Assays	Serum, plasma, tissue, cells	Enzymes, Glycolysis & Carbohydrates , Liver Biomarkers	Lactate dehydrogenase (LDH) is an oxidoreductase. LDH catalyzes the conversion of lactate to pyruvic acid and back, as it converts NAD+ to NADH and back. LDH is composed of four subunits (tetramer). The two most common subunits are the LDH-M and LDH-H protein. LDH is released into the blood by cells after tissue damage or erythrocyte hemolysis. Extracellular LDH activity is used to detect cell damage or cell death.	4-400 U/L	
Enzyme Activity (Explore More)	E-BC-K766-M	**Lactate dehydrogenase (LDH) Activity Assay Kit (WST-8 method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue, hydrothorax, cells	Lactate dehydrogenase (LDH) is an oxidoreductase. LDH catalyzes the conversion of lactate to pyruvic acid and back, as it converts NAD+ to NADH and back. LDH is composed of four subunits (tetramer). The two most common subunits are the LDH-M and LDH-H protein. LDH is released into the blood by cells after tissue damage or erythrocyte hemolysis. Extracellular LDH activity is used to detect cell damage or cell death	0.11 U/L	0.11-39.9 U/L
Enzyme Activity (Explore More)	E-BC-K771-M	**Lactate Dehydrogenase (LDH) Cytotoxicity Colorimetric Assay Kit**	96T, 500Assays	Microplate Reader	Cells	Lactate dehydrogenase catalyzes the reaction of lactic acid with NAD+ to produce pyruvic acid and NADH. NADH, under the action of PMS, transfer electrons to WST-8 to produce the		

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		(Ask quote / Manual)				yellow product, which has a characteristic absorption peak at 450 nm. Therefore, LDH activity can be quantified by measure the OD value at 450 nm.		
Enzyme Activity (Explore More)	E-BC-K568-M	**Leucine Aminopeptidase (LAP) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	LAP can catalyze the substrate L-leucine-4-nitroaniline to produce p-nitroaniline, which has the maximum absorption peak at the wavelength of 405 nm. The enzyme activity of LAP can be calculated by measuring the increasing OD value of the system.	5.2 U/L	5.2-201.8 U/L
Enzyme Activity (Explore More)	E-BC-K087-S	**Lipase (LPS) Activity Assay Kit** (Ask quote / Manual)	50Assays	Spectrophoto Meter		#N/A		
Quantitative (Explore More)	E-BC-K176-M	**Lipid Peroxide (LPO) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, tissue	With 45℃incubation for 60 min, one molecule of LPO react with two molecule of chromogenic reagent, to produce a stable chromophore which have the maximum absorption peak at 586nm. The content of LPO in samples can be calculated by standard curve or calculation formula.	0.70 μmol/L	0.70-80 μmol/L
Quantitative (Explore More)	E-BC-K044-M	**L-Lactic Acid/Lactate (LA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, cell culture supernatant, tissue, cells	Using NAD+ as H+ receptor, LDH catalyzes the reaction of lactic acid and NAD+ to generate pyruvic acid and NADH respectively. NBT is reduced to a kind of purple compound during the reaction. Measure the OD value at 530 nm, and the concentration of lactic acid can be calculated.	0.10 mmol/L	0.12-7.0 mmol/L
Quantitative (Explore More)	E-BC-K044-S	**L-Lactic Acid/Lactate (LA) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, cell culture supernatant, tissue, cells	Using NAD+ as hydrogen acceptor, LDH catalyzes the conversion of both lactate and NAD+ into pyruvic acid and NADH respectively. 1-Methoxy-5-methyl phenazine methyl sulfate (PMS) transfers hydrogen from NADH to NBT which deoxidize into purple chromogenic substrate. Lactic acid content can be calculated by measuring the OD value at 530 nm.	0.05 mmol/L	0.05-6.0 mmol/L
Quantitative (Explore More)	E-BC-K043-S	**L-Lactic Acid/Lactate (LA) Colorimetric Assay Kit (Whole Blood Samples)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Whole blood	Using NAD+ as hydrogen acceptor, LDH catalyzes the conversion of both lactate and NAD+ into pyruvic acid and NADH respectively. 1-Methoxy-5-methyl phenazine methyl sulfate (PMS) transfers hydrogen from NADH to NBT which deoxidize into purple chromogenic substrate. Lactic acid content can be calculated by measuring the OD value at 530 nm.	0.14 mmol/L	0.14-7.0 mmol/L
Quantitative (Explore More)	E-BC-K205	**Low-density Lipoprotein Cholesterol (LDL-C)**	96T	Microplate Reader, Biochemistry	Serum, Plasma, cells, culture	The coloured substance have a maximum absorption peak at 546 nm. Measure the OD value at 546 nm and the LDL-C content in the sample can be calculated.		0.2-12 mmol/L

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		Colorimetric Assay Kit (Double Reagents) (Ask quote / Manual)		analyzer	supernatant, tissue			
Quantitative (Explore More)	E-BC-K206-S	**Low-density Lipoprotein Cholesterol (LDL-C) Colorimetric Assay Kit (Double Reagents)** (Ask quote / Manual)	100Assays	Spectrophoto Meter	Serum, Plasma, cells, culture supernatant, tissue	The coloured substance have a maximum absorption peak at 546 nm. Measure the OD value at 546 nm and the LDL-C content in the sample can be calculated.		0.2-12 mmol/L
Quantitative (Explore More)	E-BC-K162-M	**Magnesium (Mg) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma	The magnesium in the serum reacts with the complexometric indicator (Calmagite) to form the Calmagite-Mg compound. The absorbance of this compound at 540 nm is proportional to the concentration of magnesium in the sample. The concentration of magnesium can be calculated by measuring the OD value at 540 nm.	0.18 mmol/L	0.18-2.50 mmol/L
Quantitative (Explore More)	E-BC-K162-S	**Magnesium (Mg) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma	The magnesium in the serum reacts with the complexometric indicator (Calmagite) to form the Calmagite-Mg compound. The absorbance of this compound at 540 nm is proportional to the concentration of magnesium in the sample. The concentration of magnesium can be calculated by measuring the OD value at 540 nm.	0.12 mmol/L	0.12-2.50 mmol/L
	E-BC-K048-S	**Malic Dehydrogenase (MDH) Activity Assay Kit (Serum Samples)** (Ask quote / Manual)	50Assays	Spectrophoto Meter		#N/A		
Quantitative (Explore More)	E-BC-K028-M	**Malondialdehyde (MDA) Colorimetric Assay Kit (Cell Samples)** (Ask quote / Manual)	500Assays,	Microplate Reader	Cells	MDA in the catabolite of lipid peroxide can react with thiobarbituric acid (TBA) and produce red compound, which has a maximum absorption peak at 532 nm.	0.29 nmol/mL	0.29-100 nmol/mL
Quantitative (Explore More)	E-BC-K027-M	**Malondialdehyde (MDA) Colorimetric Assay Kit (Plant Samples)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Plant tissue	MDA in the catabolite of lipid peroxide can react with thiobarbituric acid (TBA) and produce red compound, which has a maximum absorption peak at 532 nm.	0.52 µmol/L	0.52-120 µmol/L
Quantitative (Explore More)	E-BC-K027-S	**Malondialdehyde (MDA) Colorimetric Assay Kit (Plant Samples)**	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue	MDA in the catabolite of lipid peroxide can react with thiobarbituric acid (TBA) and produce red compound, which has a maximum absorption peak at 532 nm.	0.17 nmol/mL	0.17-120 nmol/mL

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		(Ask quote / Manual)						
Quantitative (Explore More)	E-BC-K025-M	**Malondialdehyde (MDA) Colorimetric Assay Kit (TBA Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	MDA in the catabolite of lipid peroxide can react with thiobarbituric acid (TBA) and produce red compound, which has a maximum absorption peak at 532 nm.	1.13 μmol/L	2.92-40 μmol/L
Quantitative (Explore More)	E-BC-K025-S	**Malondialdehyde (MDA) Colorimetric Assay Kit (TBA Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue	MDA in the catabolite of lipid peroxide can react with thiobarbituric acid (TBA) and produce red compound, which has a maximum absorption peak at 532 nm.	0.38 nmol/mL	0.38-133.33 nmol/mL
Enzyme Activity (Explore More)	E-BC-K041-M	**Maltase Activity Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Animal Tissue	Maltase catalyze the corresponding substrate to produce monosaccharide. Monosaccharide produce hydrogen peroxide under the action of oxidase. Hydrogen peroxide react with chromogenic agent to form red product. The activity of maltase can be calculated by detection the optical density with spectrophotometer at 505 nm.	6.32 U/mL	6.32-750 U/mL
	E-BC-K108-S	**Microscale ATPase Activity Assay Kit (Red Blood Cells)** (Ask quote / Manual)	100Assays	Spectrophoto Meter		#N/A		
Enzyme Activity (Explore More)	E-BC-K008-M	**Monoamine Oxidase (MAO) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	MAO can catalyze 4-dimethylambenzylamine to produce p-dimethylaminobenzaldehyde. p-Dimethylaminobenzaldehyde has a characteristic absorption peak at 355 nm. The activity of MAO can be calculated indirectly by analyzing the production of p-dimethylaminobenzaldehyde.	16 U/L	16 – 641 U/L
Enzyme Activity (Explore More)	E-BC-K008-S	**Monoamine Oxidase (MAO) Activity Assay Kit** (Ask quote / Manual)	100 Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue	MAO can catalysis 4-dimethylambenzylamine to produce p-dimethylaminobenzaldehyde. p-Dimethylaminobenzaldehyde has a characteristic absorption peak at 355 nm. The activity of MAO can be calculated indirectly by analyzing the production of p-dimethylaminobenzaldehyde.	6 U/L	6-722 U/L
Enzyme Activity (Explore More)	E-BC-K074-M	**Myeloperoxidase (MPO) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	Myeloperoxidase reduces hydrogen peroxide to a complex. The complex react with o-dianisidine (as hydrogen donor) to produce a yellow product which has a maximum absorption peak at 460 nm. The activity of MPO can be calculated indirectly by measuring the OD value at 460nm.	19.42 U/L	19.42-893.31 U/L
Enzyme Activity (Explore More)	E-BC-K074-S	**Myeloperoxidase (MPO) Activity Assay Kit** (Ask quote / Manual)	100Assays	Spectrophoto Meter	Serum, Plasma, milk, Animal Tissue, cells	Myeloperoxidase reduces hydrogen peroxide to a complex. The complex react with o-dianisidine (as hydrogen donor) to produce a yellow product which has a maximum absorption peak at 460 nm. The activity of MPO can be calculated	4.9 U/L	4.9-196.7 U/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						indirectly by measuring the OD value at 460nm.		
Enzyme Activity (Explore More)	E-BC-F013	**Myeloperoxidase (MPO) Peroxidation Activity Fluorometric Assay Kit** (Ask quote / Manual)	96T	Fluorescence Microplate Reader	Serum, Plasma, Animal Tissue	Under the catalysis of peroxidase, hydrogen peroxide can oxidize the non-fluorescent probe into the fluorescent substance, and its fluorescence intensity is proportional to the total peroxidase activity in the sample. This kit specifically inhibits the peroxidase activity of MPO in the sample through an MPO enzyme inhibitor, thus distinguishing the peroxidase activity of MPO in the sample from that of other peroxidases.	0.001 U/L	0.001 - 1.26 U/l
Enzyme Activity (Explore More)	E-BC-K539-M	**Na+k+-ATPase Activity Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, Animal Tissue	Na+K+-ATPase decomposes ATP to produce ADP and Phosphorus, and calculates the activity of Na+K+-ATPase by measuring the content of phosphorus.	0.11 μmol Pi/mL/hour	0.42-4.99 μmol Pi/mL
	E-BC-K199-S	**Na+K+-ATPase Activity Assay Kit (Tissue And Cells)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter		#N/A		
Quantitative (Explore More)	E-BC-K803-M	**NADP+/NADPH Colorimetric Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Animal Tissue, cells	Detect total content of NADP+ and NADPH: Glucose 6-phosphate (G6P) is oxidized to 6-phosphate gluconolactone (6-PG) by glucose-6-phosphate dehydrogenase (G6PDH), and NADP+ is reduced to NADPH during this reaction. NADPH, under the action of 1-mPMS, transfer electrons to WST-8 to produce the yellow product, which has a characteristic absorption peak at 450 nm. Therefore, the total content of NADP+ and NADPH can be quantified by measure the OD value at 450 nm.	0.02 μmol/L	0.02-5.0 μmol/l
	E-BC-K158-S	**Nitrate Reductase (NR) Activity Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter		#N/A		
Quantitative (Explore More)	E-BC-K035-M	**Nitric Oxide (NO) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue, saliva	NO is easily oxidized to form NO2- in vivo or in aqueous solution, and a reddish azo compound is formed with the color developing agent, and the concentration of the azo compound is linearly related to the concentration of NO. The concentration of NO can be calculated indirectly by measuring the OD value at 550 nm.	0.16 μmol/L	0.16-100 μmol/L
Quantitative (Explore More)	E-BC-K035-S	**Nitric Oxide (NO) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue	NO is easily oxidized to form NO2- in vivo or in aqueous solution, and a reddish azo compound is formed with the color developing agent, and the concentration of the azo compound is linearly related to the concentration of NO. The concentration of NO can be calculated indirectly by	0.97 μmol/L	0.97-700 μmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						measuring the OD value at 550 nm.		
Quantitative (Explore More)	E-BC-K070-S	**Nitrite Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, saliva, tissue, cells, cell culture supernatant	Nitrite can react with chromogenic agent producing light red azo-compound. The content of nitrite can be calculated indirectly by measuring the OD value at 550 nm.	1.36 μmol/L	1.36-500 μmol/L
Quantitative (Explore More)	E-BC-K013-M	**Non-esterified Free Fatty Acids (NEFA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Animal Tissue, cells	Under the condition of weak acidity, non-esterified free fatty acids (NEFA) react with nantokite to form copper soap, which has a specific absorption peak at 715nm. The content of NEFA can be calculated indirectly by measuring the OD value at 715 nm.	0.15 mmol/L	0.15-1.5 mmol/L
Quantitative (Explore More)	E-BC-K013-S	**Non-esterified Free Fatty Acids (NEFA) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays	Serum,anima ltissue,cells	Lipids metabolism	Under the condition of weak acidity, non-esterified free fatty acids (NEFA) react with nantokite to form copper soap, which has a specific absorption peak at 715nm. The content of NEFA can be calculated by measuring the OD value at 715 nm.	0.05-2.0 mmol/L	
Quantitative (Explore More)	E-BC-K014	**Non-esterified Free Fatty Acids (NEFA) Colorimetric Assay Kit** (Ask quote / Manual)	96T	Microplate Reader, Biochemistry analyzer	Serum, Plasma, tissue homogenate, cells, cell supernatant	NEFA and can react with coenzyme A and form acetyl-CoA under the catalysis of acetyl-CoA-synthetase (ACS). Acetyl-CoA can produce H2O2 when catalyzed by acetyl-CoA-oxidase (ACOD). Then H2O2 react with TOOS and 4-amino-antipyrine (4-APP) to generate a colored substrate under the catalysis of peroxidase (POD). The colored substrate has a maximum absorption peak at 546 nm. Measure the OD value at 546 nm and calculate the NEFA content indirectly.		0.01-3.0 mmol/L
Quantitative (Explore More)	E-BC-K892-M	**Oxalate (Oxalic Acid) Colorimetric Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Animal Urine, serum, Plasma, plant tissue	Oxalate oxidase catalyzes the oxidation of oxalate to produce hydrogen peroxide and carbon dioxide. Under the action of POD, hydrogen peroxide reacts with chromogenic substances to produce colored products. There is a specific absorption peak at 550 nm, and the color depth is proportional to the content of oxalate.	0.02 mmol/L	0.02-1 mmol/L
Enzyme Activity (Explore More)	E-BC-K227-M	**Peroxidase (POD) Activity Assay Kit (Plant samples)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Plant tissue	Plant peroxidase, a member of the superfamily of peroxidase, catalyzes the redox reaction between H2O2 and various reductants. The plant peroxidase has the same general structure and consists of iron porphyrin IX and ten α-helixes. Based on the difference of primary structure, the superfamily of plant peroxidase can be divided into three types: class I (intracellular type), class II (extracellular type of fungi) and class III (secreted type of plant).	0.01 U/mL	0.01–100 U/mL
Enzyme	E-BC-K227-S	**Peroxidase (POD) Activity**	100Assays, 50Assays	Spectrophoto	Plant tissue	The peroxidase can catalyze the decomposition of H2O2 and	0.5 U/mL	0.5-40 U/mL

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
Activity (Explore More)		**Assay Kit (Plant Samples)** (Ask quote / Manual)		Meter		produce water and oxygen. And oxygen oxidized pyrogallic acid to form yellow product. The activity of peroxidase can be calculated by measuring the absorbance at 420 nm.		
Enzyme Activity (Explore More)	E-BC-K226-S	**Peroxidase (POD) Activity Assay Kit (Serum Samples)** (Ask quote / Manual)	50Assays	Spectrophoto Meter	Serum	This kit is based on the reaction of hydrogen peroxide catalyzed by peroxidase, it detects the enzymatic activity by measuring the diversification of the absorbency value at 420 nm.	0.5 U/mL	0.5-300U/mL
Enzyme Activity (Explore More)	E-BC-K522-S	**Phenylalnine Ammonia Lyase (PAL) Activity Assay Kit** (Ask quote / Manual)	100 Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue, cells	Phenylalanine ammonia lyase (PAL) can catalyze L-phenylalanine to produce trans-cinnamic acid and ammonia, and trans-cinnamic acid has the maximum absorption peak at 290 nm. PAL activity can be calculated by measuring the increase of OD value at 290 nm.	0.78 U/g tissue	0.78-156 U/g tissue
Quantitative (Explore More)	E-BC-K245-M	**Phosphorus (Pi) Colorimetric Assay Kit (Phospho Molybdate Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue	Inorganic phosphorus react with molybdic acid to produce phosphomolybdic acid. Phosphomolybdic acid can be reduced to molybdenum blue under the action of reducing agent. And the molybdenum blue have a maximum absorption peak at 660 nm. The phosphorus content can be calculated indirectly be measuring the OD value at 660 nm.	0.004 mmol/L	0.004-2.0 mmol/L
Quantitative (Explore More)	E-BC-K245-S	**Phosphorus (Pi) Colorimetric Assay Kit (Phospho Molybdate Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue	Inorganic phosphorus react with molybdic acid to produce phosphomolybdic acid. Phosphomolybdic acid can be reduced to molybdenum blue under the action of reducing agent. And the molybdenum blue have a maximum absorption peak at 660 nm. The phosphorus content can be calculated indirectly be measuring the OD value at 660 nm.	0.005 mmol/L	0.005-2.0 mmol/L
Quantitative (Explore More)	E-BC-K284-M	**Plant Flavonoids Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Plant tissue	In alkaline nitrite solution, flavonoids form red complex with aluminum ion. The flavonoid content of the sample can be calculated by measuring the absorbance of the sample extract at 510 nm.	0.66 μg/mL	0.66-150 μg/ml
Quantitative (Explore More)	E-BC-K284-S	**Plant Flavonoids Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Plant tissue	In alkaline nitrite solution, flavonoids form red complex with aluminum ion. The flavonoid content of the sample can be calculated by measuring the absorptivity of the sample extract at 510 nm.	0.315 μg/mL	0.315-150 μg/mL
Enzyme Activity (Explore More)	E-BC-K259-M	**Polyphenol Oxidase (PPO) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Plant tissue	Polyphenol oxidase (PPO) can catalyze phenolic compounds into quinone substances. The latter has specific absorption at 410 nm. The activity of PPO can be calculated indirectly bymeasuring the OD value at 410 nm.		
Enzyme Activity	E-BC-K259-S	**Polyphenol Oxidase (PPO) Activity Assay Kit**	100 Assays, 50Assays	Spectrophoto Meter	Plant tissue	Polyphenol oxidase (PPO) can catalyze phenolic compounds into quinone substances. The latter has specific absorption at		

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
(Explore More)		(Ask quote / Manual)				410 nm. The activity of PPO can be calculated indirectly by measuring the OD value at 410 nm.		
Quantitative (Explore More)	E-BC-K279-M	**Potassium (K) turbidimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, milk, Animal Tissue, cells, cell culture supernatant	Under the alkaline condition, the sodium tetraphenylborate reacts with the potassium ions in the sample to form the potassium tetraphenylborate which is white and small particles with small solubility. Potassium tetraphenylborate particles are in a stable suspension state in the solution. The turbidity is proportional to the potassium ion concentration in the sample and potassium content can be calculated indirectly by measuring the OD value at 450 nm.	0.002 mmol/L	0.01-0.80 mmol/L
Quantitative (Explore More)	E-BC-K177-S	**Proline (Pro) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Plant tissue, honey	Proline can react with acidic-ninhydrin to form stable red compound. The maximum absorption peak of the compound is at 520 nm. And the concentration of Pro can be calculated by measuring the OD value at 520 nm.	0.17 μg/mL	0.17-35 μg/mL
Quantitative (Explore More)	E-BC-K117-M	**Protein Carbonyl Colorimetric Assay Kit (Tissue And Serum Samples)** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, hydrothorax, cell culture supernatant, tissue	The content of protein carbonyl increased after oxidation, and the carbonyl group reacted with 2, 4-dinitrophenylhydrazine to form a reddish brown precipitate. The absorbance can be measured at 370 nm after the precipitation is dissolved. The carbonyl content can be calculated indirectly.		
Quantitative (Explore More)	E-BC-K117-S	**Protein Carbonyl Colorimetric Assay Kit (Tissue And Serum Samples)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, hydrothorax, cell culture supernatant, tissue	The content of protein carbonyl increased after oxidation, and the carbonyl group reacted with 2, 4-dinitrophenylhydrazine to form a reddish brown precipitate. The absorbance can be measured at 370 nm after the precipitation is dissolved. The carbonyl content can be calculated indirectly.	0.02 nmol/mgprot	0.02-10 nmol/mgprot
Quantitative (Explore More)	E-BC-K130-M	**Pyruvic Acid Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue	Pyruvic acid can react with chromogenic agent and the reaction product is reddish brown in alkaline solution. The depth of color is directly proportional to the pyruvate content. The pyruvate content can be calculated by measuring the OD value at 505 nm.	0.003 μmol/mL	0.003-2.0 μmol/mL
Quantitative (Explore More)	E-BC-K130-S	**Pyruvic Acid Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue, cells	Pyruvic acid can react with chromogenic agent and the reaction product is reddish brown in alkaline solution. The depth of color is directly proportional to the pyruvate content. The pyruvate content can be calculated by measuring the OD value at 505 nm.	0.006 μmol/mL	0.006-2.0 μmol/mL
Cell-based (quantitative)	E-BC-K138-F	**Reactive Oxygen Species (ROS) Fluorometric Assay Kit**	96T	Fluorescence Microplate	Fresh tissue, cultured cells	DCFH-DA (2,7-dichlorofuorescin diacetate) is a fluorescent probe without fluorescence that can freely cross the		

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
(Explore More)		(Ask quote / Manual)		Reader, Fluorescence Microscope, Flow Cytometry		membrane. After entering the cell, it can be hydrolyzed by intracellular esterase to form DCFH (dichlorofluorescin). In the presence of reactive oxygen species (ROS), DCFH is oxidized to DCF (dichlorofluorescein) which is a strong green fluorescent substance that cannot penetrate the cell membrane. DCF has a maximum wave peak near the excitation wavelength of 502 nm and the emission wavelength of 525 nm, and the intensity is proportional to the level of intracellular reactive oxygen species.		
Quantitative (Explore More)	E-BC-K030-M	**Reduced Glutathione (GSH) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, cell culture supernatant, tissue, cells	Reduced GSH can react with Dinitrobenzoic acid (DNTB) to form a yellow complex which can be detected by colorimetric assay at 405 nm and calculate the reduced GSH content indirectly.	2 μmol/L	2-100 μmol/L
Quantitative (Explore More)	E-BC-K030-S	**Reduced Glutathione (GSH) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue, cells	Reduced glutathione (GSH) can react with dithionitrobenzoic acid (DTNB) to produce thio-nitrobenzoic acid and glutathione disulfide. Nitromercaptobenzoic acid is a yellow compound which has the maximum absorption peak at 420 nm. The GSH content can be calculated by measuring the OD value at 420 nm.	0.26 mg GSH/L	0.26-122.8 mgGSH/L
Quantitative (Explore More)	E-BC-K068-M	**Sialic Acid (SA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, saliva, Urine, hydrothorax, tissue	Sialic acid forms a purplish red complex with methyl resorcinol in the presence of oxidant. And the absorbance conforms to Lambert-Beer's law. The content of sialic acid can be calculated by measuring the OD value at 560 nm.	0.03 mmol/L	0.03-7 mmol/L
Quantitative (Explore More)	E-BC-K068-S	**Sialic Acid (SA) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, saliva, Urine, hydrothorax, tissue, cells	Sialic acid forms a purplish red complex with methyl resorcinol in the presence of oxidant. And the absorbance conforms to Lambert-Beer's law. The content of sialic acid can be calculated by measuring the OD value at 560 nm.	0.022 mmol/L	0.022-7 mmol/L
Quantitative (Explore More)	E-BC-K207-S	**Sodium (Na) Colorimetric Assay Kit** (Ask quote / Manual)	200Assays	Spectrophoto Meter, Microplate Reader, Biochemistry analyzer	Serum	Production of o-nitrophenol and galactose by o-nitrophenol-β-D-galactoside (ONPG) catalyzed by sodium dependent β-D-galactosidase. The amount of o-nitrophenol is directly proportional to the concentration of sodium ion in the sample. The o-nitrophenol is yellow in alkaline environment. The increase of absorbance is determined at 405 nm, and the content of sodium ion is calculated indirectly.		80-180 mmol/L
Enzyme	E-BC-K751-M	**Sucrase Activity Assay Kit**	96T	Microplate	Animal Tissue	Sucrase catalyzes its substrate (sucrose) to produce glucose,	20 U/mL	20-2000 U/mL

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
Activity (Explore More)		(Ask quote / Manual)		Reader		which produces hydrogen peroxide under the action of glucose oxidase. Hydrogen peroxide reacts with chromogenic agent to produce red substance, which has a strong absorption peak at 505 nm. In a certain concentration range, It's absorbance is proportional to glucose concentration. Therefore, the activity of sucrase can be calculated by measuring the OD value at 505 nm.		
Quantitative (Explore More)	E-BC-K161-S	**Sucrose Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Plant tissue	Sucrose in plant tissue is hydrolyzed to glucose and fructose in boiling water bath under acidic conditions. 5-hydroxymethyl furfural was synthesized from fructose under acid condition and measure the ultraviolet absorption of 5-hydroxymethyl furfural. Glucose must be dissimilated into ketose structure and reduced to obtain 5-hydroxymethylfurfural, but the rate of isomerization of glucose to ketose is very slow. Therefore, the ultraviolet absorption of glucose is much smaller than fructose.	0.32 μmol/mL	0.32-70 μmol/mL
Quantitative (Explore More)	E-BC-F042	**Sucrose Fluorometric Assay Kit** (Ask quote / Manual)	96T	Fluorescence microplate Reader	Plant tissue	Sucrose can be hydrolyzed by sucrase to produce glucose under acidic conditions, which is catalyzed by glucose oxidase to produce hydrogen peroxide. In the presence of HRP (horse radish peroxidase), hydrogen peroxide reacts with the fluorescent probe to form red fluorescent substance. The sucrose content can be calculated by measuring the fluorescence intensity at the excitation wavelength of 535 nm and the emission wavelength of 590 nm.	0.15 μmol/L	0.15-15 μmol/L
Quantitative (Explore More)	E-BC-K298-M	**Thiobarbituric Acid Reactants (TBARS) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	TBARS and TBA can react under high temperature and acid conditions and then form a pink compound, the concentration of which is linearly related to the concentration of TBARS in the sample. The TBARS concentration can be calculated by measuring the OD values at 530-540 nm.	0.85 μmol/L	2.6-100 μmol/L
Quantitative (Explore More)	E-BC-K298-F	**Thiobarbituric Acid Reactants (TBARS) Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, Animal Tissue, cells	TBARS and TBA can react under high temperature and acid conditions and then form a pink compound, the concentration of which is linearly related to the concentration of TBARS in the sample. The TBARS concentration can be calculated by measuring the fluorescence values at the excitation wavelength of 530 nm and the emission wavelength of 550 nm.	0.09 μmol/L	0.09-10 μmol/L
Quantitative (Explore More)	E-BC-K055-M	**Total Amino Acids (T-AA) Colorimetric Assay Kit**	96T, 48T	Microplate Reader	Serum, Plasma, Urine,	Copper ions can complex with various amino acids to produce blue-green complex compound, and the depth of color is	3.03 mmol/L	3.64-100 mmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		(Ask quote / Manual)			tissue	proportional to the content of total amino acids at a specific wavelength. T-AA content can be calculated with the absorbance at 650 nm.		
Enzyme Activity (Explore More)	E-BC-K136-M	**Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, whole blood, tissue, cells, cell culture supernatant	A variety of antioxidant macromolecules, antioxidant molecules and enzymes in a system can eliminate all kinds of reactive oxygen species and prevent oxidative stress induced by reactive oxygen species. The total level reflect the total antioxidant capacity in the system. Many antioxidants in the body can reduce Fe3+ to Fe2+ and Fe2+ can form stable complexes with phenanthroline substance. The antioxidant capacity (T-AOC) can be calculated by measuring the absorbance at 520 nm.	0.62 U/mL	0.62-190.43 U/mL
Quantitative (Explore More)	E-BC-K136-S	**Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, saliva, Urine, tissue, cells	A variety of antioxidant macromolecules, antioxidant molecules and enzymes in a system can eliminate all kinds of reactive oxygen species and prevent oxidative stress induced by reactive oxygen species. The total level reflect the total antioxidant capacity in the system. Many antioxidants in the body can reduce Fe3+ to Fe2+ and Fe2+ can form stable complexes with phenanthroline substance. The antioxidant capacity (T-AOC) can be calculated by measuring the absorbance at 520 nm.	0.62 U/mL	0.62-145.2 U/mL
Quantitative (Explore More)	E-BC-K219-M	**Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit (ABTS, Enzyme Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, saliva, tissue, cells	The principle of the ABTS method for determining the T-AOC is as follows. ABTS is oxidized to green ABTS+ by appropriate oxidant, which can be inhibited if there exist antioxidants. The T-AOC of the sample can be determined and calculated by measuring the absorbance of ABTS+ at 414 nm or 734 nm. Trolox is an analog of VE and has a similar antioxidant capacity to that of VE. Trolox is used as a reference for other antioxidant antioxidants. For example, the T-AOC of Trolox is 1, then the antioxidant capacity of the other substance with the same concentration is showed by the ratio of its antioxidant capacity to Trolox antioxidant capacity.	0.047 mmol/L	0.047-1.50 mmol/L
Quantitative (Explore More)	E-BC-K271-M	**Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit (ABTS, Chemical Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, saliva, tissue, cells	The principle of the ABTS method for determining the T-AOC is as follows. ABTS is oxidized to green ABTS+ by appropriate oxidant, which can be inhibited if there exist antioxidants. The T-AOC of the sample can be determined and calculated by measuring the absorbance of ABTS+ at 734 nm. Trolox is an analog of VE and has a similar antioxidant capacity to that of	0.05 mmol/L	0.05-1.00 mmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						VE. Trolox is used as a reference for other antioxidant antioxidants. For example, the T-AOC of Trolox is 1, then the antioxidant capacity of the other substance with the same concentration is showed by the ratio of its antioxidant capacity to Trolox antioxidant capacity.		
Quantitative (Explore More)	E-BC-K225-M	**Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit (FRAP Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, saliva, Urine, tissue, cells, cell culture supernatant	Fe3+-TPTZ can be reduced by antioxidants and produce blue Fe2+-TPTZ under acid condition. The antioxidant capacity of sample can be calculated by detection the absorbance value at 593 nm.	0.049 mmol/L	0.049-2.5 mmol/L
Quantitative (Explore More)	E-BC-K801-M	**Total Antioxidant Status (TAS) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, cellular supernatant, animal, plant tissue	ABTS is oxidized to green ABTS•+ by appropriate oxidant, which can be reduced to colorless ABTS in the presence of antioxidants. The TAS of the sample can be determined and calculated by measuring the absorbance of ABTS•+ at 660 nm. Trolox is an analog of VE and has a similar antioxidant state to that of VE. Trolox is used as a reference substance for total antioxidant status.	0.23 mmol Trolox Equiv./L	0.23-2 mmol Trolox Equiv./L
Quantitative (Explore More)	E-BC-K181	**Total Bile Acid (TBA) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays	Spectrophoto Meter, Biochemistry analyzer	Serum	Measure the OD value at 405 nm and the changes of absorbance is proportional to the concentration of bile acid.		0-180 μmol/L
Quantitative (Explore More)	E-BC-K181-M	**Total Bile Acid (TBA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum	With S-NAD+ as hydrogen receptor, 3α-hydroxy steroid dehydrogenase catalyzed the dehydrogenation of bile acids to produce 3-ketone steroids, transforming S-NAD+ into S-NADH. Meanwhile, NADH was used as hydrogen donor. 3α-hydroxy steroid dehydrogenase catalyzed the production of bile acids from 3-ketone steroids. Through the enzyme cycle reaction, S-NADH is continuously generated, which has the maximum absorption peak at 405 nm. Measure the OD value at 405 nm and the changes of absorbance is proportional to the concentration of bile acid.	2.05 μmol/L	2.05-120 μmol/L
Quantitative (Explore More)	E-BC-K760-M	**Total Bilirubin (TBIL) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Animal serum	Bilirubin is one of the important components of bile. It is the degradation product of hemoglobin in various heme proteins under the action of a series of enzymes. It is important to the digestion and absorption of lipids and the formation of yellow distemper. Bilirubin comes in two forms: water-soluble and water-insoluble. Bilirubin has powerful antioxidant, anti-	0.7 μmol/L	0.7-50 μmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						inflammatory and autoimmune properties. The concentration of bilirubin in human body is related to sex, drug intake, age and so on. Low serum bilirubin is directly related to diabetes, metabolic syndrome, cardiovascular disease and other pathological states. However, high bilirubin is indicative of hemolysis, jaundice, Gilbert syndrome, hepatitis, drug toxicity, and possible bile duct obstruction.		
Quantitative (Explore More)	E-BC-K171-M	**Total Carbonyl Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue	Carbonyl can react with 2,4-dinitrophenylhydrazine and produce a kind of reddish brown hydrazone compounds, which has a specific absorbance peak at 370 nm. The content of carbonyl can be calculated according to the absorbance value.	1.29 μg/mL	1.29-45 μg/mL
Quantitative (Explore More)	E-BC-K171-S	**Total Carbonyl Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, , tissue	Carbonyl can react with 2,4-dinitrophenylhydrazine and produce a kind of reddish brown hydrazone compounds, which has a specific absorbance peak at 370 nm. The content of carbonyl can be calculated according to the absorbance value.	0.94 μg/mL	0.94-45 μg/mL
Quantitative (Explore More)	E-BC-K109-M	**Total Cholesterol (TC) Colorimetric Assay Kit (Single Reagent, COD-PAP Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue, cells, cell culture supernatant	Total cholesterol includes free cholesterol and cholesterol esters. Cholesterol ester can be hydrolyzed by cholesterol esterase to produce cholesterol and free fatty acid. Cholesterol is oxidized by cholesterol oxidase to produce △4-cholestenone and hydrogen peroxide. In the presence of 4-aminoamylpyridine and phenol, hydrogen peroxide catalyze peroxidase to form red quinone compounds of benzoquinone imine phenizone.Thecolor depth of the generated quinone is directly proportional to the cholesterol content. The absorbance values of the standard tube and the sample tube are measured respectively, and the cholesterol content in the sample can be calculated.	0.29 mmol/L	0.29-25.85 mmol/L
Quantitative (Explore More)	E-BC-K109-S	**Total Cholesterol (TC) Colorimetric Assay Kit (Single Reagent, COD-PAP Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, hydrothorax, Animal Tissue, cells	Total cholesterol includes free cholesterol and cholesterol esters. Cholesterol ester can be hydrolyzed by cholesterol esterase to produce cholesterol and free fatty acid. Cholesterol is oxidized by cholesterol oxidase to produce △4-cholestenone and hydrogen peroxide. In the presence of 4-aminoamylpyridine and phenol, hydrogen peroxide catalyze peroxidase to form red quinone compounds of benzoquinone imine phenizone.Thecolor depth of the generated quinone is directly proportional to the cholesterol content. The	0.09 mmol/L	0.09-25.85 mmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						absorbance values of the standard tube and the sample tube are measured respectively, and the cholesterol content in the sample can be calculated.		
Quantitative (Explore More)	E-BC-F032	**Total Cholesterol and Cholesteryl Ester Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, Animal Tissue, cells	Total Cholesterol (TC) includes free cholesterol (FC) and cholesteryl esters (CE). Cholesterol ester can be hydrolyzed by cholesterol esterase to produce cholesterol and free fatty acid. Cholesterol is oxidized by cholesterol oxidase to produce △4-cholestenone and hydrogen peroxide. In the presence of the enzyme and probe, hydrogen peroxide can be catalyzed to produce the fluorescence substrate. The fluorescence intensity at the excitation wavelength of 535 nm and emission wavelength of 590 nm is proportional to the cholesterol concentration.	0.12 μmol/L	0.12-30 μmol/L
Quantitative (Explore More)	E-BC-K097-M	**Total Glutathione (T-GSH)/Oxidized Glutathione (GSSG) Colorimetric Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, Animal Tissue, red blood cells, cultured cells	GSSG is reduced to GSH by glutathione reductase, and GSH can react with DTNB to produce GSSG and yellow TNB. The amount of total glutathione (GSSG+GSH) determines the amount of yellow TNB. Thus the total glutathione can be calculated by measuring the OD value at 412 nm. The content of GSSG can be determined by first removing GSH from the sample with appropriate reagent and then using the above reaction principle.	0.36 μmol/L T-GSH	0.36-30 μmol/L T-GSH
Quantitative (Explore More)	E-BC-K097-S	**Total Glutathione (T-GSH)/Oxidized Glutathione (GSSG) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Animal Tissue, red blood cells, cultured cells	GSSG is reduced to GSH by glutathione reductase, and GSH can react with DTNB to produce GSSG and yellow TNB. The amount of total glutathione (GSSG+GSH) determines the amount of yellow TNB. Thus the total glutathione can be calculated by measuring the OD value at 412 nm. The content of GSSG can be determined by first removing GSH from the sample with appropriate reagent and then using the above reaction principle.	0.12 μmol/L T-GSH	0.12-30 μmol/L T-GSH
Quantitative (Explore More)	E-BC-K071-M	**Total Iron Binding Capacity (TIBC) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum	The excess iron is added to the serum to bind all the ferritin in the serum, and the excess iron is adsorbed by adding the iron adsorbent. The iron bind with the ferritin is separated from the protein by the action of acid solution and reductant. Fe3+ in serum is reduced to Fe2+, Fe2+ binds with bipyridine to form pink complex. In a certain range, the amount of TIBC is positively correlated with the depth of color. The iron content measured is, minus serum iron value, which is called unsaturated iron binding force. Total iron binding capacity	0.14 mg/L	0.31-50 mg/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
						minus serum iron value is unsaturated iron binding capacity (UIBC).		
Quantitative (Explore More)	E-BC-K071-S	**Total Iron Binding Capacity (TIBC) Colorimetric Assay Kit** (Ask quote / Manual)	50Assays,	Spectrophoto Meter	Serum	The excess iron is added to the serum to bind all the ferritin in the serum, and the excess iron is adsorbed by adding the iron adsorbent. The iron bind with the ferritin is separated from the protein by the action of acid solution and reductant. Fe3+ in serum is reduced to Fe2+, Fe2+ binds with bipyridine to form pink complex. In a certain range, the amount of TIBC is positively correlated with the depth of color. The iron content measured is, minus serum iron value, which is called unsaturated iron binding force. Total iron binding capacity minus serum iron value is unsaturated iron binding capacity (UIBC).	0.03 mg/L	0.03-50 mg/L
Quantitative (Explore More)	E-BC-K772-M	**Total Iron Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, tissue, cells	Under the action of reductant, iron ions in samples can be reduced into ferrous ions (Fe2+). The latter then bind to probe and form complexes, which has a maximum absorption peak at 593 nm. The concentration of iron can be calculated by measuring the OD value at 593 nm indirectly.	0.4 μmol/L	0.4-50 μmol/L
Quantitative (Explore More)	E-BC-K802-M	**Total Oxidant Status (TOS) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Tissue, serum and other liquid samples	Under acid conditions, the oxidizing material in the sample can oxidize Fe2+ to Fe3+, which binds highly with xylenol orange to produce a blue-purple complex. When the pH of solution is in the range of 2-3, its maximum absorption wavelength is around 590 nm, and the color depth is proportional to the content of oxidation substances in a certain concentration and a certain time, so as to indirectly calculate the total oxidation state of the sample.	2.5 μmol H2O2 Equiv./L	2.5-100 μmol H2O2 Equiv./L
Quantitative (Explore More)	E-BC-K354-M	**Total Phenols Colorimetric Assay Kit (Plant samples)** (Ask quote / Manual)	96T	Microplate Reader	Plant tissue	Plant total phenol is a common secondary natural metabolite in plants. There are several kinds of phenolic compounds, such as hydroxybenzoic acid, hydroxy cinnamic acid, flavonoids, chalcone, flavonoids, lignin, coumarin and astragalus. Phenolic compounds are antioxidants that delay or prevent oxidation and oxygen radical reactions.	1.05 μg/mL	1.05–148 μg/mL
Quantitative (Explore More)	E-BC-K354-S	**Total Phenols Colorimetric Assay Kit (Plant Samples)** (Ask quote / Manual)	100Assays, 200Assays	Spectrophoto Meter	Plant tissue	Under alkaline conditions, tungsten-molybdenum acid can be reduced by phenols and produce blue compounds, which has a characteristic absorption peak at 760 nm. The content of total phenols in sample can be calculated indirectly by measuring the absorbance at 760 nm.	0.73 μg/mL	0.73-150 μg/ml
Quantitative	E-BC-K265-M	**Total Sulfhydryl Group/Total**	96T	Microplate	Serum,	Sulfhydryl compounds react with 5,5' -dithiobis (2-	9.91 μmol/L	9.91-1000

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
(Explore More)		**Thiol (-SH) Colorimetric Assay Kit** (Ask quote / Manual)		Reader	Plasma, Animal Tissue	nitrobenzoic acid) under neutral or alkaline conditions to produce a yellow product which have a maximum absorption peak at 412 nm. Measure the OD value and calculate the total mercapto content indirectly.		µmol/L
Enzyme Activity (Explore More)	E-BC-K019-M	**Total Superoxide Dismutase (T-SOD) Activity Assay Kit (Hydroxylamine Method)** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, cells, cell culture supernatant, tissue	The superoxide anion free radical (O2-) can be produced by xanthine and xanthine oxidase reaction system, O2- oxidize hydroxylamine to form nitrite, it turn to purple under the reaction of developer. When the measured samples containing SOD, the SOD can specifically inhibit superoxide anion free radical (O2-). The inhibitory effect of SOD can reduce the formation of nitrite, the absorbance value of sample tube is lower than control tube. Calculate the SOD of sample according to the computational formula.	2.4 U/mL	2.4-61 U/mL
Enzyme Activity (Explore More)	E-BC-K019-S	**Total Superoxide Dismutase (T-SOD) Activity Assay Kit (Hydroxylamine Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Urine, cells, cell culture supernatant, tissue	The superoxide anion free radical (O2-) can be produced by xanthine and xanthine oxidase reaction system, O2- oxidize hydroxylamine to form nitrite, it turn to purple under the reaction of developer. When the measured samples containing SOD, the SOD can specifically inhibit superoxide anion free radical (O2-). The inhibitory effect of SOD can reduce the formation of nitrite, the absorbance value of sample tube is lower than control tube. Calculate the SOD of sample according to the computational formula.	4.7 U/mL	4.7-166 U/mL
Enzyme Activity (Explore More)	E-BC-K020-M	**Total Superoxide Dismutase (T-SOD) Activity Assay Kit (WST-1 Method)** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Serum, Plasma, hydrothorax, ascites, Urine, cells, tissue	The activity of SOD was measured by WST-1 method in this kit and the principles of the WST-1 is as follows. Xanthine Oxidase (XO) can catalyze WST-1 react with O2.- to generate a water-soluble formazan dye. SOD can catalyze the disproportionation of superoxide anions, so the reaction can be inhibited by SOD, and the activity of SOD is negatively correlated with the amount of formazan dye. Therefore, the activity of SOD can be determined by the colorimetric analysis of WST-1 products.	0.2 U/mL	0.2 -14.4 U/mL
Quantitative (Explore More)	E-BC-K238	**Triglyceride (TG) Colorimetric Assay Kit (Single Reagent, GPO-PAP Method)** (Ask quote / Manual)	96T	Microplate Reader, Biochemistry analyzer	Serum, Plasma, cells, culture supernatant	The color depth of the generated quinones is directly proportional to the triglyceride content. The absorbance values of the standard tube and the sample tube are measured respectively, and the triglyceride content in the sample can be calculated.		0-9.04 mmol/L
Quantitative (Explore More)	E-BC-K261-M	**Triglyceride (TG) Colorimetric Assay Kit (Single Reagent,**	96T	Microplate Reader	Serum, Plasma, cells	Triglycerides (TG) can be hydrolyzed by lipoprotein lipase into glycerol and free fatty acids. Glycerol produces glycerol-3-	0.14 mmol/L	0.14-10 mmol/L

Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
		GPO-PAP Method) (Ask quote / Manual)			and tissue	phosphate and ADP under the catalysis of glycerol kinase (GK). Glycerol-3-phosphate produces hydrogen peroxide under the action of glycerol phosphate oxidase (GPO). In the presence of 4-aminoantipyrine and phenol, hydrogen peroxide is catalyzed by peroxidase (POD) to produce quinones which is proportional to the content of TG.		
Quantitative (Explore More)	E-BC-K261-S	**Triglyceride (TG) Colorimetric Assay Kit (Single Reagent, GPO-PAP Method)** (Ask quote / Manual)	100 Assays	Serum,plasma,tissue,cells	Lipids metabolism	The color depth of the generated quinones is directly proportional to the triglyceride content. The absorbance values of the standard tube and the sample tube are measured respectively, and the triglyceride content in the sample can be calculated.	0.19-8.0 mmol/L	
Enzyme Activity (Explore More)	E-BC-K851-M	**Tyrosine Ammonia-lyase (TAL) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Fruit juices, plant and Animal Tissue	TAL can decompose tyrosine to produce 4-coumaric acid, which has a strong absorption peak at 333 nm. Therefore, the activity of TAL can be calculated by measuring the OD value at 333 nm.	0.12 U/mL	
Quantitative (Explore More)	E-BC-K329-S	**Urea (BUN) Colorimetric Assay Kit (Diacetyl Oxime Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, saliva, Urine	In strong acidic and heating condition, urea can react with diacetyl to form red diazine compound. The depth of color is proportional to the content of urea. Because the instability of the diacetyl, the diacetyl oxime usually react with the strong acid firstly in the reaction system to generate diacetyl, then react with urea to generate the red diazine compound.	0.12 mmol/L	0.12-15 mmol/L
Quantitative (Explore More)	E-BC-K183-M	**Urea (BUN) Colorimetric Assay Kit (Urease Method)** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, Urine, saliva, milk	Urea can be decomposed into ammonia ion and carbon dioxide by urease. Ammonia ion can react with amphyl and form a green substance in alkaline medium, and the production of the green substance is proportional to the urea content which can be calculated with the colorimetric assay at 580 nm.	0.09 mmol/L	0.28-35 mmol/L
Quantitative (Explore More)	E-BC-K183-S	**Urea (BUN) Colorimetric Assay Kit (Urease Method)** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Urine, saliva, milk	Urea can be decomposed into ammonia ion and carbon dioxide by urease. Ammonia ion can react with phenol chromogenic agent and form a blue substance in alkaline medium, and the production of the blue substance is proportional to the urea content which can be calculated with the colorimetric assay at 580 nm.	0.114 mmol/L	0.114-30 mmol/L
Quantitative (Explore More)	E-BC-K016-M	**Uric Acid (UA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine	Uric Acid in protein-free filtrate reduce phosphotungstic acid to form tungsten blue, allantoin and carbon dioxide, the depth of blue color is proportional to the concentration of uric acid. Uric acid content can be calculated by measuring the OD value at 690 nm.	1.30 mg/L	1.30-80 mg/L

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
Quantitative (Explore More)	E-BC-K016-S	**Uric Acid (UA) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, Urine	Uric acid can be used as an antioxidant to remove peroxide, hydroxyl and oxygen free radicals, chelate and transfer metal ions, protect vascular endothelial cells from damage. Uric Acid in protein-free filtrate reduce phosphotungstic acid to form tungsten blue, allantoin and carbon dioxide, the depth of blue color is proportional to the concentration of uric acid.	0.58 mg/L	0.58-100 mg/L
Quantitative (Explore More)	E-BC-F018	**Uric Acid (UA) Fluorometric Assay Kit** (Ask quote / Manual)	96T, 48T	Fluorescence Microplate Reader	Serum, Plasma, Urine, Animal Tissue	Uricase catalyzes the decomposition of uric acid into allantoin, CO2 and H2O2. Under the action of peroxidase, H2O2 oxidizes the non-fluorescent probe into the fluorescent substance. By measuring the fluorescence value of the system, the corresponding uric acid content can be calculated.	0.03 μmol/L	0.03-15 μmol/L
Quantitative (Explore More)	E-BC-K034-M	**Vitamin C (VC) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue	The most obvious chemical activity of VC is that reduce Fe3+ to Fe2+, then promote iron absorption in the intestine, promote the storage and utilization of iron. Fe3+ react immediately with reducing ascorbic acid to form Fe2+. then Fe2+ react with phenanthroline and the color developing reaction occurs. The content of vitamin C in sample can be determined. Measure the OD value and calculate the VC content indirectly.	0.31 μg/mL	0.31-20 μg/mL
Quantitative (Explore More)	E-BC-K034-S	**Vitamin C (VC) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue	The most obvious chemical activity of VC is that reduce Fe3+ to Fe2+, then promote iron absorption in the intestine, promote the storage and utilization of iron. Fe3+ react immediately with reducing ascorbic acid to form Fe2+. then Fe2+ react with phenanthroline and the color developing reaction occurs. The content of vitamin C in sample can be determined. Measure the OD value and calculate the VC content indirectly.	0.35 μg/mL	0.35-20 μg/mL
Quantitative (Explore More)	E-BC-K033-M	**Vitamin E (VE) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, tissue	Fe3+ can be deoxidized to Fe2+ by VE with ferroin existing. Fe2+ can react with phenanthroline and form pink compound under certain condition. After colorimetric assay, VE content can be figured out according to the standard curve or calculated through formula.	0.95 μg/mL	0.95-40 μg/mL
Quantitative (Explore More)	E-BC-K033-S	**Vitamin E (VE) Colorimetric Assay Kit** (Ask quote / Manual)	100Assays, 50Assays	Spectrophoto Meter	Serum, Plasma, tissue	Fe3+ can be deoxidized to Fe2+ by VE with ferroin existing. Fe2+ can react with phenanthroline and form pink compound under certain condition. VE content can be calculated by measuring the OD value at 532 nm.	0.09 μg/mL	0.09-40 μg/mL
Enzyme	E-BC-F019	**Xanthine Oxidase (XOD)**	96T	Fluorescence	Serum,	Hypoxanthine are oxidized by xanthine oxidase (XOD) to	0.01 U/L	0.01 -1.2 U/L

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Assay Type	Cat No.	Product Name	Pack size	Instrument	Sample type	Detection Principle	Sensitivity	Detc. Range
Activity (Explore More)		**Activity Fluorometric Assay Kit** (Ask quote / Manual)		Microplate Reader	Plasma, Animal Tissue	produce xanthine and super oxygen anion, which will quickly converte to hydrogen peroxide in the system, and then, in the role of peroxidase, hydrogen peroxide can oxidize the non-fluorescent probe to fluorescent substance. By measuring the fluorescence value, the corresponding the activity of xanthine oxidase can be calculated.		
Quantitative (Explore More)	E-BC-K137-M	**Zinc (Zn) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Urine, milk	The zinc ion in the sample react with 5-Br-PADAP to produce the colored complex. The depth of color is directly proportional to the concentration of zinc ion. Zinc ion content can be calculated by measuring the OD values at 560 nm.	0.418 μmol/L	0.748 -46.2 μmol/L
Enzyme Activity (Explore More)	E-BC-K007-M	**α-Amylase Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Animal and plant tissue	The reducing sugar reacts with 3,5-dinitrosalicylic acid under heating conditions to produce a brown-red substance, which is inactivated by the thermolabile nature of β-amylase, and then the enzyme activity of α-amylase is determined.	0.97 U/g tissue	0.97-34.74 U/g tissu
Enzyme Activity (Explore More)	E-BC-K006-M	**α-Amylase and β-amylase Activity Assay Kit** (Ask quote / Manual)	96T	Microplate Reader	Serum, Plasma, saliva, tissue	The reducing sugar reacts with 3,5-dinitrosalicylic acid under heating conditions to produce a brown-red substance. Amylase activity can be calculated by measuring the OD value at 540 nm.	0.008 U/mL	0.01-0.56 U/mL
Enzyme Activity (Explore More)	E-BC-K005-M	**β-Amylase Activity Assay Kit** (Ask quote / Manual)	96T, 500Assays	Microplate Reader	Plant tissue	The reducing sugar reacts with 3,5-dinitrosalicylic acid under heating conditions to produce a brown-red substance. β-amylase was inactivated by the property of amylase not to be heat-resistant, and then the enzyme activity of total amylase and α-amylase is determined. So the activity of β-amylase can be calculated indirectly.	0.97 U/g tissue	0.97-34.74 U/g tissu
(Explore More)	E-BC-K064-S	**β-N-acetyl-glucosaminidase (NAG) Activity Assay Kit** (Ask quote / Manual)	50Assays	Spectrophoto Meter		#N/A		
Quantitative (Explore More)	E-BC-K852-M	**γ-Aminobutyric Acid (GABA) Colorimetric Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Plant and Animal Tissue	Phenol and sodium hypochlorite react with GABA to produce a blue-green product, which has maximum absorbance at 640 nm. GABA content can be calculated with the absorbance at 640 nm.	0.06 μmol/mL	0.06-10.0 μmol/mL
Enzyme Activity (Explore More)	E-BC-K126-M	**γ-Glutamyl Transferase (γ-GT) Activity Assay Kit** (Ask quote / Manual)	96T, 48T	Microplate Reader	Serum, Plasma, Animal Tissue	γ-GT catalyzes the transfer of gamma glutamyl group from glutamyl p-nitroaniline to N-glycyl glycine to produce p-nitroaniline, which has characteristic absorption peak at 405nm. The activity of γ-GT can be calculated according to the changing rate of absorbance value.	0.88 U/L	0.88-399.4 U/L