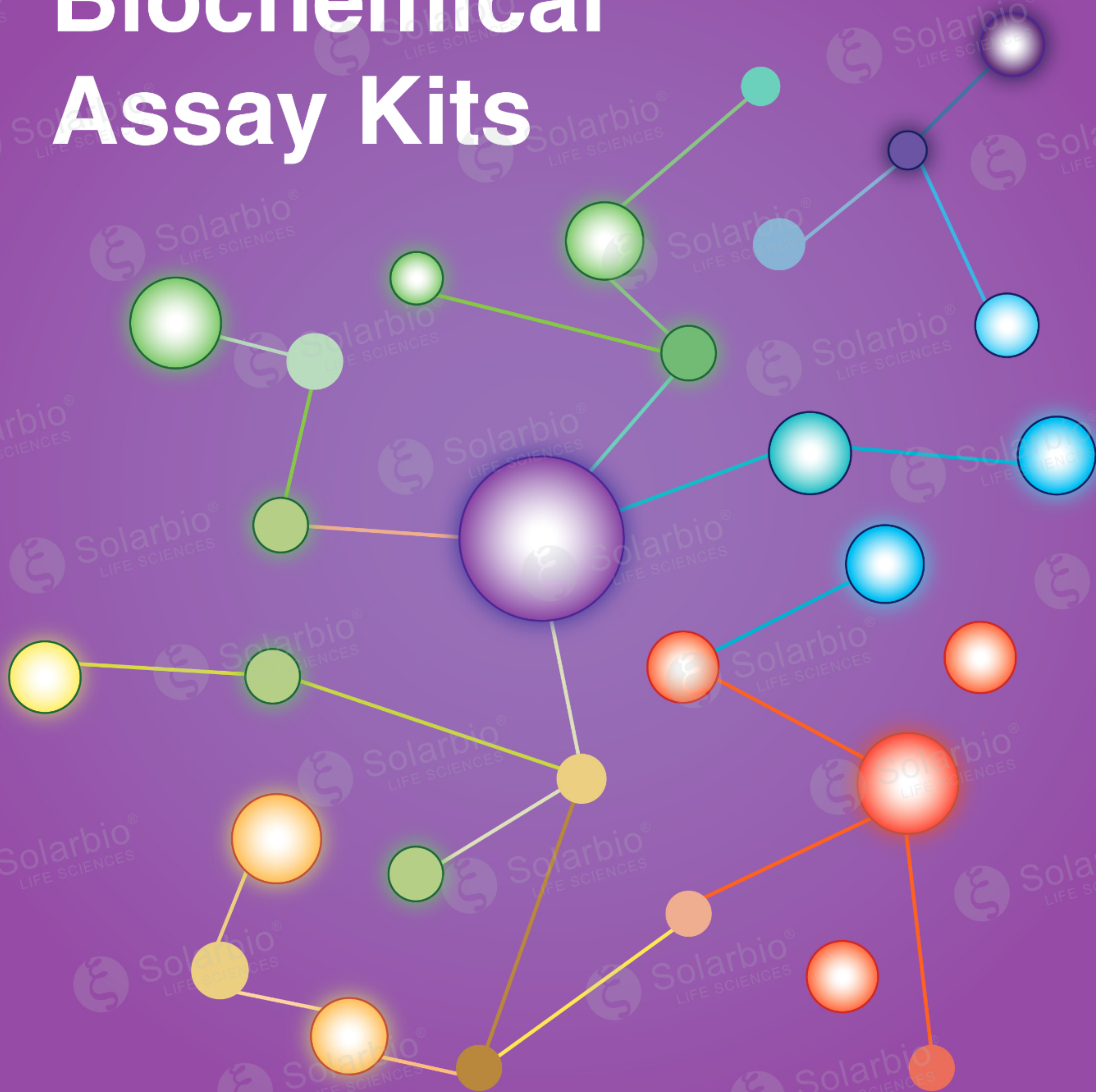


Biochemical Assay Kits



Beijing Solarbio Science & Technology Co.,Ltd.

Introduction

Solarbio biochemical assay kits are developed on the basis of the principle involved chemical reaction/enzymatic reaction or material structure characteristics which can be used to detect the content of substances or enzyme activity in samples. Solarbio has independently developed 25 series which more than 500 varieties of biochemical assay kits. Our kits are ready-to-use products which characterized by simple, rapid, stability and batch testing. Our kits covered many fields including agriculture, forestry, medicine, pharmacy, food, environmental protection and so on. These kits are applied for detecting sample from soil, water quality, animal/plant tissues, serum, cells, bacteria to food, etc. Detection targets is including oxidative stress assay, co-enzymes & cofactors metabolism, fatty acid & lipid metabolism, carbohydrate metabolism, inorganic ions metabolism, soil system metabolism, nitrogen metabolism, energy metabolism, protease activity assay and so on. We also provide customized products and detection service for biochemical assay kits.

The catalogue number of biochemical assay kits are coded ending with "0" or "5", representing two types of reaction systems respectively. The catalogue number ending with "0" represents spectrophotometer (1 mL of the reaction system) which can be detected by spectrophotometry. The catalogue number ending with "5" represents micro-determination (0.2 mL of the reaction system) which can be detected by spectrophotometer (Visible range/UV) or microplate reader.

Product Categories

1 Oxidative Stress

2 Soil System Metabolism

3 Carbohydrate Metabolism

4 Lipid Metabolism

5 Energy Metabolism

6 Protease Activity Assay

7 Nitrogen Metabolism

8 Coenzymes & Cofactors Metabolism

9 Inorganic Ions Assay

Oxidative Stress

Vitamin C metabolism

Ascorbic Acid (AsA)
Dehydroascorbic Acid (DHA)
L-galactose-1,4-lactone dehydrogenase (Gal LDH)
Ascorbic Acid Oxidase (AAO)
Ascorbate Peroxidase (APX)
Monodehydroascorbate Reductase (MDHAR)
Dehydroascorbate Reductase (DHAR)

Oxidant assay

Hydrogen Peroxide (H_2O_2)
Malondialdehyde (MDA)
Xanthine Oxidase (XOD)
Glucose Oxidase (GOD)
Polyphenol Oxidase (PPO)
Protein Carbonyl
Diamine Oxidase (DAO)
Superoxide Anion

Glutathione assay

Reduced Glutathione (GSH)
Oxidized Glutathione (GSSG)
Glutathione Peroxidase (GPX)
Thioredoxin Peroxidase (TPX)
Glutathione S-transferase (GST)
Glutathion Reductases (GR)
Oxidized Thioredoxin Reductase (TrxR)
 γ -glutamylcysteine Ligase (GCL)
 γ -glutamyl Transpeptidase (γ -GT)

Antioxidant assay

Superoxide Dismutase (SOD)
Catalase (CAT)
Peroxidase (POD)
Ceruloplasmin (CP) Content A
Total Antioxidant Capacity (T-AOC)
Hydroxyl Free Radical Scavenging Capacity
Thioredoxin Peroxidase (TPX)
Glutathione Peroxidase (GPX)
Glutathione S-transferase (GST)
Ascorbic Acid (AsA)
Total Mercapto (-SH)
Thiol (Non-Protein Sample)
Tannic Acid
Pectin
Cinnamic acid 4-hydroxylase (C4H)
Tyrosinase
Anthocyanidin Reductase
Indoleacetic acid oxidase
Plant Anthocyanin/Flavonoids/Proanthocyanidins
Uric Acid (UA)

Peroxidation assay

Superoxide Dismutase (SOD)
Catalase (CAT)
Peroxidase (POD)
Polyphenol Oxidase (PPO)
Phenylalanine Ammonialyase (PAL)
Proline (PRO)

Soil System Metabolism

Soil system metabolism

Soil Urease (S-UE)
Soil Polyphenoloxidase
Soil β -glucosidase (β -GC)
Soil Cellulase (S-CL)
Soil Catalase (S-CAT)
Soil Nitrate Reductase (S-NR)
Soil Saccharase (S-SC)
Soil acid phosphatase (S-ACP)
Soil Neutral Phosphatase (S-NP)
Soil Alkaline Phosphatase (S-AKP/ALP)
Soil Hydrargyrum (S-Hg)
Soil Phosphate (S-PHOS)
Soil Phosphorus
Soil Dehydrogenase
Soil Acid Protease
Soil Neutral Protease
Soil Alkaline Protease
Soil FDA Hydrolase
Soil Nitrate Reductase (S-NR)
Soil Peroxidase
Soil Diastase
Soil Neutral Invertase (S-NI)
Soil Acid Invertase (S-NI)
Soil α -glucosidase (S- α -GC)
Soil Lipase (S-LPS)
Soil Aryl Sulfatase
Soil N-Acetyl- β -D-glucosaminidase (S-NAG)
Soil Laccase
Soil Leucine Arylamidase (S-LAP)

Carbohydrate Metabolism

Glycolysis
Hexokinase(HK)
Pyruvate Kinase(PK)
Phosphofructokinase(PFK)
Phosphoenolpyruvate Carboxylase(PEPC)
Pyruvate(PA)
Lacate Dehydrogenase(LDH)
Glyceraldehyde-3-phosphate Dehydrogenase(GAPDH)

Tricarboxylic acid cycle
αKetoglutarate Dehydrogenase(α-KGDH)
Citric Acid(CA)
Succinate Dehydrogenase(SDH)
Pyruvate Dehydrogenase(PDH)
Isocitrate Dehydrogenase Mitochondrial(ICDHm)
Citrate Synthase(CS)
Acetyl Co-A
Mitochondrial Citric Acid(MCA)

Sucrose metabolism
Sucrose Synthetase(SS)
Neutral Invertase(NI)
Acid Invertase(AI)
Plant Saccharase
Sucrose Phosphoric Acid Synthetase(PS)
Sucrose Phosphorylase

Saccharides metabolism
Glucose
Glucogen
Trehalose
Sorbitol
Reducing Sugar(RS)
Blood Glucose
Starch
Tissue Glucose
Plant Soluble Sugar/Tissue Fructose
Plant Sucrose
Total Carbohydrate
Neutral Xylanase
Acidic Xylanase
Alkaline Xylanase
Cellulase(CL)
Trehalase
Sorbitol Dehydrogenase(SDH)
β-1,3-glucanase(β-1,3-GA)
α-glucosidase(α-GC)
β-glucosidase(β-GC)
α-galactosidase(α-GAL)
β-galactosidase(β-GAL)
Chitinase
β-xylosidase
ADPG Pyrophosphorylase(AGP)
α-amylase/β-amylase
Soluble Starch Synthase(SSS)
Bound Station Amylosynthase
Starch Branching Enzyme(SBE)

Lipid Metabolism

Fatty acid metabolism
Nonesterified Free Fatty Acids(NEFA)
Fatty Acid Synthetase
Fatty Acid Synthetase
Lipase(LPS)
Alcohol Dehydrogenase(ADH)
Acyltransferase(AAT)
Pyruvate Decarboxylase(PDC)
Triglyceride(TG)
Total Cholestenone(TC)
Free Cholestenone(FC)
Plant Lipoxxygenase(LOX)

Lipase activity assay
Acetylcholinesterase(AchE)
Acid Phosphatase(ACP)
Alkaline Phosphatase(AKP/ALP)
Carboxylesterase(CarE)

Energy Metabolism

ATP metabolism
ATP
Na ⁺ K ⁺ ——ATPase
Ca ²⁺ Mg ²⁺ ——ATPase

Electron transport chain
Transhydrogenase-1
Transhydrogenase-2
Electron Transport Chain Complex II
Electron Transport Chain Complex III
Electron Transport Chain Complex IV
Electron Transport Chain Complex V

Cytochrome P450
NADPH-cytochrome C Reductase
Aminopyrine-N-demethylase
Aniline-4 hydroxylase(AH)
Erythromycin-N-methylenzyme
Cytochrome b5

Protease Activity Assay

Protease activity assay
Acidic Proteinase
Neutral Proteinase
Alkali Proteinase
Trypsase
Pepsase
Chymotrypsin

Nitrogen Metabolism

Amino acid metabolism
Glutamic-pyruvic Transaminase(GPT)
Glutamic-oxalacetic Transaminase(GOT)
Glutamine Synthetase(GS)
Proline(PRO)
Amino Acid(AA)
Cysteine(Cys)
Glutamic Acid(Glu)
Hydroxyproline(HYP)

Nitrogen metabolism
Nitrate Reductase(NR)
Glutamate Synthase(GOGAT)
Glutaminase(GLS)
Glutamic Acid Dehydrogenase(GDH)
Nitric Oxide(NO)
Nitrite-Water and Soil sample
Nitrite-Food sample
Glutamine Synthetase(GS)

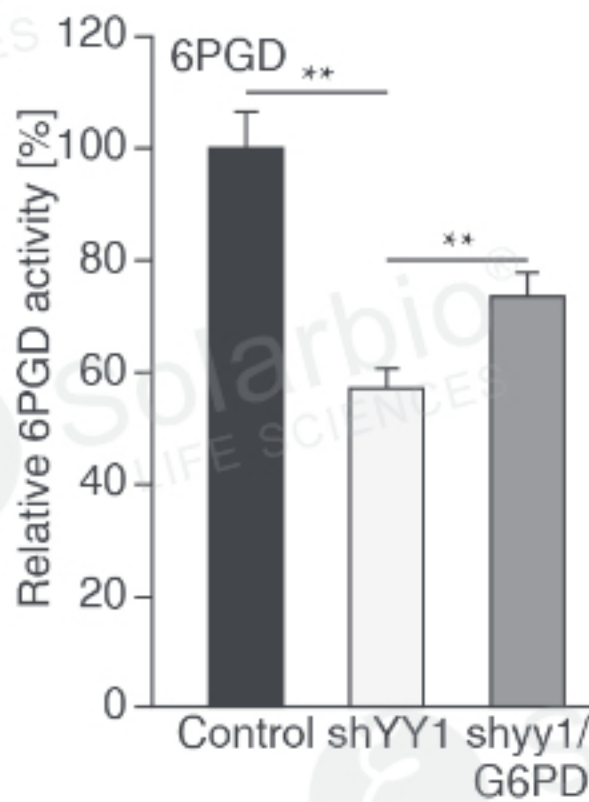
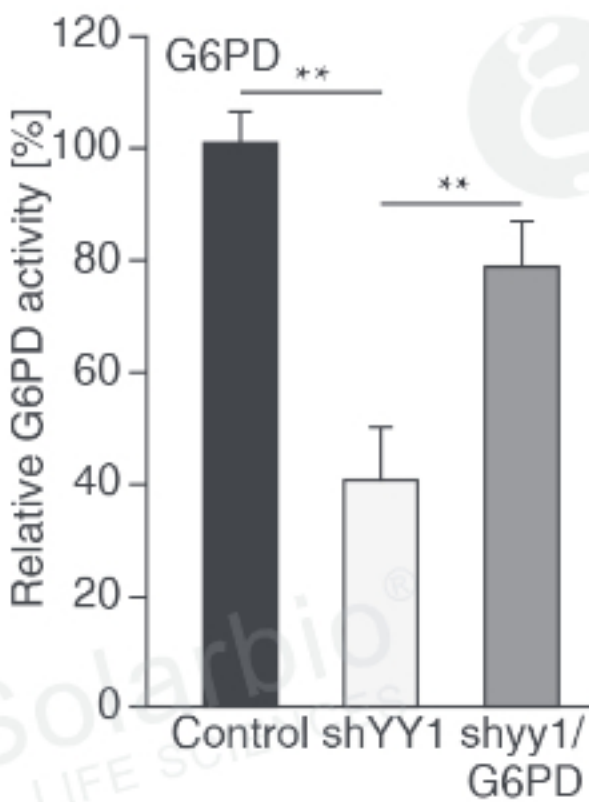
Coenzymes & Cofactors Metabolism

Coenzymes I metabolism
Coenzyme I NAD(H)
NAD Kinase(NADK)
Lacate Dehydrogenase(LDH)
NAD-Malate Dehydrogenase(NAD-MDH)
NADP-Malate Dehydrogenase(NAD-MDH)
NADH Oxidase(NOX)
Citrate Synthase(CS)
Pyruvate Decarboxylase(PDC)
Alcohol Dehydrogenase(ADH)
Monodehydroascorbate Reductase(MDHAR)
Acetaldehyde Dehydrogenase(ALDH)

Coenzymes II metabolism
Coenzyme II NADP(H)
NAD Kinase(NADK)
NADP Phosphatase(NADPase)

Inorganic Ions Assay

Inorganic ions metabolism
Phosphate/Total Phosphorus
Blood Calcium/Potassium/Magnesium/Sodium
Blood Phosphate/Zinc
Serum Ferri Ion
Serum Total Iron Binding Capacity(TIBC)
Water Mercury Ion(Hg ²⁺)
Water Chromium(VI)
Soil Hydrargyrum(S-Hg)/Phosphorus
Soil Phosphate(S-PHOS)



Representative Papers

Journal	IF	Product	PMID
Nature Nanotechnology	38.3	Glutamic-pyruvic Transaminase(GPT) Activity Assay Kit/Micro Glutamic-oxalacetic Transaminase (GOT) Assay Kit/Reduced Glutathione(GSH) Content Assay Kit/Oxidized Thioredoxin Reductase (TrxR) Activity Assay Kit(BC1555/BC1565/BC1175/BC1155)	36536041
Nature Nanotechnology	38.3	Protein Carbonyl Content Assay Kit(BC1275)	35995853
Immunity	32.4	β -galactosidase(β -GAL) Activity Assay Kit(BC2580)	36792573
Cell Host & Microbe	30.3	β -galactosidase(β -GAL) Activity Assay Kit/ β -glucosidase(β -GC) Activity Assay Kit (BC2580/BC2560)	37100057
Advanced Materials	29.4	Glutamic-pyruvic Transaminase(GPT) Activity Assay Kit/Micro Glutamic-oxalacetic Transaminase(GOT) Assay Kit(BC1555/BC1565)	36576344
Advanced Materials	29.4	ATP Content Assay Kit(BC0300)	36828777
Advanced Materials	29.4	ATP Content Assay Kit(BC0300)	36917817
Advanced Materials	29.4	Lipid Peroxide(LPO) Content Assay Kit(BC5240)	37279172
Advanced Materials	29.4	Superoxide Anion Scavenging Capacity Assay Kit(BC1415)	36122571
Advanced Materials	29.4	ATP Content Assay Kit(BC0300)	36541158
Advanced Materials	29.4	Hydroxyproline(HYP) Content Assay Kit(BC0250)	35146813
Molecular Plant	27.5	Hydrogen Peroxide(H_2O_2) Content Assay Kit(BC3595)	35272047
Nature Plants	18.0	Peroxidase(POD) Activity Assay Kit/Hydrogen Peroxide(H_2O_2) Content Assay Kit (BC0095/BC0205)	36646829
ACS Nano	17.1	Lactate Dehydrogenase(LDH) Activity Assay Kit/Coenzyme II NADP(H) Content Assay Kit (BC0680/BC1105)	36602915
ACS Nano	17.1	Citrate Synthase(CS) Activity Assay Kit(BC1060)	35820199
Nature Communications	16.6	Triglyceride(TG) Content Assay Kit/Total Cholesterol(TC) Content Assay Kit/Free Fatty Acids(FFA) Content Assay Kit(BC0625/BC1985/BC0595)	36918564
Nature Communications	16.6	Hydrogen Peroxide(H_2O_2) Content Assay Kit(BC3590)	37198152
Advanced Science	15.1	ATP Content Assay Kit/Pyruvate(PA) Content Assay Kit(BC0300/BC2205)	37029462
Journal of the American Chemical Society	15.0	Reduced Glutathione(GSH) Content Assay Kit(BC1175)	36998235
Journal of Hazardous Materials	13.6	Total Antioxidant Capacity(T-AOC) Assay Kit(FRAP Method)/Micro Acetylcholinesterase(AchE) Assay Kit(BC1315/BC2025)	36857826
Journal of Hazardous Materials	13.6	Superoxide Dismutase(SOD) Activity Assay Kit/Peroxidase(POD) Activity Assay Kit/Catalase (CAT) Activity Assay Kit/Ascorbate Peroxidase(APX) Activity Assay Kit/Hydrogen Peroxide (H_2O_2) Content Assay Kit/Malondialdehyde(MDA) Content Assay Kit(BC0175/BC0095/BC0205/BC0225/BC3595/BC0025)	36905907
Journal of Hazardous Materials	13.6	Manganese Peroxidase(Mip) Activity Assay Kit/Lignin Peroxidase(Lip) Activity Assay Kit/Soil Lignin Peroxidase(S-Lip) Activity Assay Kit/Soil Laccase Activity Assay Kit/Laccase Activity Assay Kit(BC1620/BC1610/BC1970/BC1960/BC1630)	36989785
Journal of Hazardous Materials	13.6	α -amylase (α -AL) Activity Assay Kit(BC0610)	37043854
Journal of Hazardous Materials	13.6	Malondialdehyde(MDA) Content Assay Kit/Hydrogen Peroxide(H_2O_2) Content Assay Kit (BC0025/BC3595)	37210880
Water Research	12.8	Plant Soluble Sugar Content Assay Kit(BC0035)	36841163
Genome Biology	12.3	Lactic Acid(LA) Content Assay Kit(BC2230)	37085894
Redox Biology	11.4	Reduced Glutathione(GSH) Content Assay Kit(BC1175)	37216701
Biomaterials Research	11.3	DPPH Free Radical Scavenging Capacity Assay Kit(BC4750)	37147703
Nano Letters	10.8	Micro NO Content Assay Kit(BC1475)	36695738
Science of the Total Environment	9.8	Plant Chlorophyll Content Assay Kit(BC0990)	36690104
Science of the Total Environment	9.8	Superoxide Dismutase(SOD) Activity Assay Kit/Peroxidase(POD) Activity Assay Kit/ Catalase(CAT) Activity Assay Kit/Malondialdehyde(MDA) Content Assay Kit/Tissue Iron Content Assay Kit(BC0175/BC0095/BC0205/BC0025/BC4355)	36708821
Science of the Total Environment	9.8	Total Antioxidant Capacity(T-AOC) Assay Kit(FRAP Method)/Micro Acetylcholinesterase(AchE) Assay Kit(BC1315/BC2025)	36740067
Science of the Total Environment	9.8	Total Antioxidant Capacity(T-AOC) Assay Kit(FRAP Method)/Micro Acetylcholinesterase(AchE) Assay Kit(BC1315/BC2025)	36931517

Beijing Solarbio Science & Technology Co.,Ltd.

301, Third Floor, Building 26, No. 16, Huanke Middle Road, Beijing Economic-Technological Development Area, Beijing, China

0086-10-50973105

sales@solarbio.com

http://www.solarbio.com