

Simple and Effective Assays for Basic Research

Cayman Chemical has developed a range of assays designed with convenience in mind for your most fundamental data collection tasks. Whether assessing cell health, determining metabolic parameters, or performing routine standardization and monitoring evaluations, our kits provide all the necessary reagents, plates, instructions, and analysis tools to help you attain fast, accurate results.

Apoptosis Assays

Product Name	Measure	Cayman Item No.	VWR Cat. No.
Annexin V FITC Assay Kit	Cultured cell apoptosis/necrosis	600300	75816-978
Caspase-3/7 Fluorescence Assay Kit	Caspase-3/7 activity in cell lysates	10009135	75816-720
JC-1 Mitochondrial Membrane Potential Assay Kit	Mitochondrial membrane potential in whole cells	10009172	75816-722
TMRE Mitochondrial Membrane Potential Assay Kit	Mitochondrial membrane potential in whole cells	701310	75817-204

Cell Proliferation Assays

Product Name	Measure	Cayman Item No.	VWR Cat. No.
Cell Cycle Phase Determination Kit	Cell cycle progression in cultured cells	10009349	75816-738
CFSE Cell Division Assay Kit	Up to eight cell divisions in activated lymphocytes	10009853	75817-236
MTT Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	10009365	75817-344
WST-1 Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	10008883	75816-714 75816-716
WST-8 Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	10010199	75816-748 75816-746
XTT Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	10010200	75816-752 75816-750

Cytotoxicity Assays

Product Name	Measure	Cayman Item No.	VWR Cat. No.
7-AAD/CFSE Cell-Mediated Cytotoxicity Assay Kit	Cytotoxicity in immune effector cells	600120	75816-968
Autophagy/Cytotoxicity Dual Staining Kit	Regulation of autophagy and cytotoxicity in cultured cells	600140	75816-970
LDH Cytotoxicity Assay Kit	Drug-induced cytotoxicity in cultured cells	601170	75817-106 75817-104

Metabolism Assays

Product Name	Measure	Cayman Item No.	VWR Cat. No.
Calcium Assay Kit	Calcium in plasma, serum, urine, tissue homogenates, and cell lysates	701220	75817-202
Cholesterol Fluorometric Assay Kit	Total cholesterol in plasma or serum	10007640	75816-698 75816-700
Glucose Colorimetric Assay Kit	Glucose in plasma, serum, and urine	10009582	75817-348
Glucose Uptake Cell-Based Assay Kit	Glucose uptake in cultured cells	600470	75816-992
Glycogen Assay Kit	Glycogen from tissue samples	700480	75817-144
Free Fatty Acid Fluorometric Assay Kit	FFAs in plasma, serum, and urine	700310	75817-130
β -Hydroxybutyrate (Ketone Body) Colorimetric Assay Kit	β -HB from plasma, serum, urine, cell lysates, and tissue homogenates	700190	75817-116

Metabolism Assays (continued)

Product Name	Measure	Cayman Item No.	VWR Cat. No.
L-Lactate Assay Kit	L-lactate in serum, plasma, whole blood, urine, saliva, and cultured cells	700510	75817-146
Pyruvate Assay Kit	Pyruvate in serum, plasma, blood, urine, and saliva	700470	75817-142
Triglyceride Colorimetric Assay Kit	Triglyceride levels in plasma, serum, cell lysates, and tissue homogenates	10010303	75816-756
Uric Acid Assay Kit	Uric acid in serum, plasma, and urine	700320	75817-132

Standardization and Monitoring Assays

Product Name	Measure	Cayman Item No.	VWR Cat. No.
Creatinine (serum) Colorimetric Assay Kit	Creatinine levels in plasma and serum	700460	75817-140
Creatinine (urinary) Colorimetric Assay Kit	Creatinine levels in urine	500701	75816-810 75816-808
Hemoglobin Colorimetric Assay Kit	Total hemoglobin concentration in blood, tissue homogenates, and cell lysates	700540	75817-150
His-Tag Detection ELISA Kit	His-tagged proteins from cell lysates or affinity column fractions	10012445	75817-250
Malachite Green Phosphate Assay Kit	Inorganic free phosphate in aqueous solutions	10009325	75816-736
Protein Determination Kit	Total protein concentration	704002	75817-402

Oxidative Damage Assays

Product Name	Measure	Cayman Item No.	VWR Cat. No.
Antioxidant Assay Kit	Total antioxidant capacity in plasma, serum, urine, saliva, and cell lysates	709001	75817-392
Catalase Assay Kit	Catalase activity in plasma, serum, erythrocyte lysates, tissue homogenates, and cell lysates	707002	75817-342 75817-340
DNA/RNA Oxidative Damage ELISA Kit	8-hydroxy-2'-deoxyguanosine, 8-hydroxyguanosine, and 8-hydroxyguanine in cell lysates, cell culture medium, tissue, plasma/serum, saliva, and urine	589320	75817-290 75817-288
Glutathione Assay Kit	Total, oxidized, and/or reduced glutathione in cell lysates, tissue homogenates, plasma and erythrocyte lysates, and serum	703002	75817-210 75817-208
Glutathione Peroxidase Assay Kit	Glutathione peroxidase activity in plasma, erythrocyte lysates, tissue homogenates, and cell lysates	703102	75817-214 75817-212
8-Isoprostane ELISA Kit	8-Isoprostane in tissue culture supernatants, plasma, serum, whole blood, and urine	516351	75816-890 75816-888
Nitrate/Nitrite Colorimetric Assay Kit	Nitrate, nitrite, and/or total nitrate/nitrites in plasma/serum, urine, tissue culture media, and tissue homogenates	780001	75817-230
Protein Carbonyl Colorimetric Assay Kit	Protein carbonyl content in plasma, serum, urine, tissue homogenates, and cell lysates	10005020	75816-674
Superoxide Dismutase Assay Kit	Copper/zinc, manganese, and iron SOD in tissues, plasma, serum, and cell lysates	706002	75817-338 75817-336
TBARS Assay Kit	MDA, a byproduct of lipid peroxidation, in plasma, serum, urine, tissue homogenates, and cell lysates	10009055	75816-718
Thiol Detection Assay Kit	Free thiol content in plasma, serum, urine, cell lysates, and tissue homogenates	700340	75817-136 75817-134

For additional product or technical information, visit www.vwr.com, call 1.800.932.5000, or contact your VWR representative.



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