

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.



Distributed by



Apoptosis Assays

Item No.	Product Name	Measure	Readout	Time to Results
601410	Annexin V APC Assay Kit	Cultured cell apoptosis/necrosis	Flow cytometer	30 minute staining protocol
600300	Annexin V FITC Assay Kit	Cultured cell apoptosis/necrosis	Flow cytometer Fluorescence microscope	30 minute staining protocol
601420	Annexin V PE Assay Kit	Cultured cell apoptosis/necrosis	Flow cytometer	30 minute staining protocol
10009135	Caspase-3/7 Fluorescence Assay Kit	Caspase-3/7 activity in cell lysates	Fluorescence plate reader	2 hours
601360	Early Apoptosis Detection Assay Kit	Four distinct events including early-stage apoptosis in cultured cells	Flow cytometer	30 minute staining protocol
10009172	JC-1 Mitochondrial Membrane Potential Assay Kit	Mitochondrial membrane potential in whole cells	Flow cytometer Fluorescence plate reader Fluorescence microscope	<1 hour staining protocol
601430	Mitochondrial PT Pore Assay Kit	Mitochondrial inner membrane permeability	Flow cytometer Fluorescence microscope	15 minute staining protocol
601280	Multi-Parameter Apoptosis Assay Kit	Four distinct apoptotic events in cultured cells	Flow cytometer Fluorescence microscope	<1 hour staining protocol
701310	TMRE Mitochondrial Membrane Potential Assay Kit	Mitochondrial membrane potential in whole cells	Fluorescence plate reader	<1 hour staining protocol

Cell Proliferation Assays

Item No.	Product Name	Measure	Readout	Time to Results
10009349	Cell Cycle Phase Determination Kit	Cell cycle progression in cultured cells	Flow cytometer	~3 hours
10009853	CFSE Cell Division Assay Kit	Up to eight cell divisions in activated lymphocytes	Flow cytometer	<2 hour staining protocol
10009365	MTT Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	Colorimetric plate reader	8-22 hours
10008883	WST-1 Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	Colorimetric plate reader	2-4 hours
10010199	WST-8 Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	Colorimetric plate reader	2-4 hours
10010200	XTT Cell Proliferation Assay Kit	Cell viability and proliferation in cultured cells	Colorimetric plate reader	~4 hours

Cytotoxicity Assays

Item No.	Product Name	Measure	Readout	Time to Results
600120	7-AAD/CFSE Cell-Mediated Cytotoxicity Assay Kit	Cytotoxicity in immune effector cells	Flow cytometer	6-7 hours
600140	Autophagy/Cytotoxicity Dual Staining Kit	Regulation of autophagy and cytotoxicity in cultured cells	Fluorescence microscope Fluorescence plate reader	20 minute staining protocol
601170	LDH Cytotoxicity Assay Kit	Drug-induced cytotoxicity in cultured cells	Colorimetric plate reader	30 minute reaction

Metabolism Assays

Item No.	Product Name	Measure	Readout	Time to Results
700260	Alanine Transaminase Colorimetric Activity Assay Kit	ALT activity in serum, plasma, tissue samples, and cell lysates	Colorimetric plate reader	<30 minutes
700410	ATP Detection Assay Kit - Luminescence	Total ATP levels in cell lysates	Luminescence plate reader	<30 minutes
701220	Calcium Assay Kit	Calcium in plasma, serum, urine, tissue homogenates, and cell lysates	Colorimetric plate reader	<30 minutes
10007640	Cholesterol Fluorometric Assay Kit	Total cholesterol in plasma or serum	Fluorescence plate reader	<1 hour
10009582	Glucose Colorimetric Assay Kit	Glucose in plasma, serum, and urine	Colorimetric plate reader	<1 hour
700480	Glycogen Assay Kit	Glycogen from tissue samples	Fluorescence plate reader	<1 hour
700310	Free Fatty Acid Fluorometric Assay Kit	FFAs in plasma, serum, and urine	Fluorescence plate reader	~1 hour
701350	α -Ketoglutarate Fluorometric Detection Assay Kit	α -KG in plasma, serum, urine, and tissue homogenates; intracellular/extracellular α -KG in cell culture	Fluorescence plate reader	<1 hour
700510	L-Lactate Assay Kit	L-lactate in serum, plasma, whole blood, urine, saliva, and cultured cells	Fluorescence plate reader	<1 hour
700470	Pyruvate Assay Kit	Pyruvate in serum, plasma, blood, urine, and saliva	Fluorescence plate reader	<1 hour
10010303	Triglyceride Colorimetric Assay Kit	Triglyceride levels in plasma, serum, cell lysates, and tissue homogenates	Colorimetric plate reader	<1 hour
700320	Uric Acid Assay Kit	Uric acid in serum, plasma, and urine	Fluorescence plate reader	<1 hour

Standardization and Monitoring Assays

Item No.	Product Name	Measure	Readout	Time to Results
700460	Creatinine (serum) Colorimetric Assay Kit	Creatinine levels in plasma and serum	Colorimetric plate reader	<1 hour
500701	Creatinine (urinary) Colorimetric Assay Kit	Creatinine levels in urine	Colorimetric plate reader	<1 hour
501560	DYKDDDDK-Tag Detection ELISA Kit	DYKDDDDK-tagged proteins from cell lysates, supernatants, and affinity column fractions	Colorimetric plate reader	<3 hours
700540	Hemoglobin Colorimetric Assay Kit	Total hemoglobin concentration in blood, tissue homogenates, and cell lysates	Colorimetric plate reader	<30 minutes
10012445	His-Tag Detection ELISA Kit	His-tagged proteins from cell lysates or affinity column fractions	Colorimetric plate reader	<3 hours
10009325	Malachite Green Phosphate Assay Kit	Inorganic free phosphate in aqueous solutions	Colorimetric plate reader	<1 hour
701410	Protease Activity Assay Kit	Protease activity in a variety of samples	Fluorescence polarization plate reader Fluorescence plate reader	<30 minutes
704002	Protein Determination Kit	Total protein concentration	Colorimetric plate reader	<1 hour

Oxidative Damage Assays

Item No.	Product Name	Measure	Readout	Time to Results
709001	Antioxidant Assay Kit	Total antioxidant capacity of plasma, serum, urine, saliva, or cell lysates	Colorimetric plate reader	<10 minutes
10009055	TBARS Assay Kit	TBARS in plasma, serum, urine, tissue homogenates, and cell lysates	Colorimetric plate reader Fluorescence plate reader	<2 hours
700340	Thiol Detection Assay Kit	Free thiol content in plasma, serum, urine, cell lysates, and tissue homogenates	Fluorescence plate reader	<10 minutes



To view a complete list of our assay kits, visit us online at www.caymanchem.com

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