



<https://www.akrivisbio.com>



In Italia: Vinci-Biochem Srl
Via Ponte di Bagnolo, 10
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Metabolism and other Assay Kits

Metabolic Assays
...and more

AkrivisBio

- CANCER
- CARDIOVASCULAR DISEASE
- CELL-BASED ASSAYS
- DIABETES
- EPIGENETICS
- IMMUNOLOGY
- INFECTIOUS DISEASE
- KIDNEY DISEASE
- LIVER DISEASE
- NEUROSCIENCE
- OBESITY
- OXIDATIVE STRESS
- SAMPLE PREPARATION



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Metabolism and other Assay Kits

2-Phosphoglycerate Assay	100 tests	AKR-MA-0340	DS
6-Phosphogluconate DH Activity Assay	100 tests	AKR-MA-0337	DS
6-Phosphogluconic Acid Assay	100 tests	AKR-MA-0338	DS
ACE1 Inhibitor Screening Kit	100 tests	AKR-MA-0188	DS
Acetate Assay	100 tests	AKR-MA-0130	DS
Acetoacetate Assay	100 tests	AKR-MA-0238	DS
Acetyl CoA Assay	100 tests	AKR-MA-0127	DS
Acetylcholinesterase Activity Assay	100 tests	AKR-MA-0239	DS
Acid Phosphatase Activity Assay (C)	500 tests	AKR-MA-0240	DS
Acid Phosphatase Activity Assay (F)	500 tests	AKR-MA-0241	DS
Aconitase Activity Assay	100 tests	AKR-MA-0235	DS
Adenosine Assay	100 tests	AKR-MA-0198	DS
Adenylate Kinase Activity Assay	100 tests	AKR-MA-0378	DS
Adipogenesis Assay	100 tests	AKR-MA-0199	DS
ADP Assay (C)	100 tests	AKR-MA-0242	DS
ADP Assay (C/F)	100 tests	AKR-MA-0243	DS
ADP Assay Kit (F)	100 tests	AKR-MA-0244	DS
Alanine Aminotransferase (ALT) Assay	100 tests	AKR-MA-0116	DS
Alanine Assay (C/F)	100 tests	AKR-MA-0245	DS
Alanyl Aminopeptidase Activity Assay (F)	100 tests	AKR-MA-0384	DS
Albumin (Albuminuria) Assay (F)	100 tests	AKR-MA-0246	DS
Albumin (BCG) Assay Kit (C)	100 tests	AKR-MA-0247	DS
Alcohol Dehydrogenase Activity Assay	100 tests	AKR-MA-0162	DS
Aldehyde Dehydrogenase Activity Assay II (F)	100 tests	AKR-MA-0248	DS
Aldehyde Dehydrogenase Assay	100 tests	AKR-MA-0169	DS
Aldolase Assay	100 tests	AKR-MA-0176	DS
Aldose Reductase Inhibitor Screening Kit	100 tests	AKR-MA-0211	DS
Alkaline Phosphatase Activity Assay	500 tests	AKR-MA-0109	DS
Alkaline Phosphatase Activity Assay	500 tests	AKR-MA-0226	DS
Alkaline Phosphatase Staining Kit	48 tests	AKR-COS-0105	DS
Alpha-Ketoglutarate Dehydrogenase Activity Assay	100 tests	AKR-MA-0249	DS
Ammonia Assay	100 tests	AKR-MA-0125	DS
Ammonia Assay II	100 tests	AKR-MA-0140	DS
α -Amylase Activity Assay	100 tests	AKR-MA-0138	DS
Angiotensin II Converting Enzyme Activity Assay	100 tests	AKR-MA-0158	DS
Annexin V-FITC Apoptosis Detection Kit	100 tests	AKR-COS-0108-100	DS
Annexin V-FITC Apoptosis Detection Kit	25 tests	AKR-COS-0108-25	DS
Arginase Activity Assay	100 tests	AKR-MA-0210	DS
L-Arginine Assay	100 tests	AKR-MA-0185	DS
Aromatase (CYP19A) Activity Assay	100 tests	AKR-MA-0250	DS
Ascorbic Acid Assay	100 tests	AKR-MA-0251	DS
Ascorbic Acid Assay II (FRASC)	100 tests	AKR-MA-0252	DS
L-Asparaginase Activity Assay	100 tests	AKR-MA-0159	DS
Aspartate Aminotransferase Activity Assay	100 tests	AKR-MA-0120	DS
Aspartate Assay	100 tests	AKR-MA-0253	DS



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ATP Assay	100 tests	AKR-MA-0113	DS
ATPase Activity Assay	100 tests	AKR-MA-0254	DS
Bacterial Cell Counting Assay	2500 tests	AKR-MA-0255-2500	DS
Bacterial Cell Counting Assay	500 tests	AKR-MA-0255-500	DS
Beta-galactosidase Assay	100 tests	AKR-MA-0282	DS
Beta-galactosidase Staining Kit	1920 tests	AKR-COS-0104	DS
Beta-hydroxybutyrate Assay	100 tests	AKR-MA-0132	DS
Branched Chain Amino Acid Assay	100 tests	AKR-MA-0157	DS
Butyrylcholinesterase Activity Assay	100 tests	AKR-MA-0256	DS
Calcium Assay	250 tests	AKR-MA-0104	DS
Carbonic Anhydrase Activity Assay	100 tests	AKR-MA-0187	DS
Carbonic Anhydrase Inhibitor Screening Kit	100 tests	AKR-MA-0261	DS
L-Carnitine Assay	100 tests	AKR-MA-0161	DS
Casp-Active Caspase-9 Kit	100 tests	AKR-COS-0107-100	DS
Casp-Active Caspase-9 Kit	25 tests	AKR-COS-0107-25	DS
Caspase-1 Assay	100 tests	AKR-MA-0194-100	DS
Caspase-1 Assay	25 tests	AKR-MA-0194-25	DS
Caspase-3 Activity Assay	100 tests	AKR-MA-0191-100	DS
Caspase-3 Activity Assay	200 tests	AKR-MA-0191-200	DS
Caspase-3 Activity Assay	25 tests	AKR-MA-0191-25	DS
Caspase-3 Activity Assay II	100 tests	AKR-MA-0218	DS
Catalase Activity Assay	100 tests	AKR-MA-0143	DS
Cathepsin B Activity Assay	100 tests	AKR-MA-0168-100	DS
Cathepsin B Activity Assay	25 tests	AKR-MA-0168-25	DS
Cathepsin D-E Activity Assay	100 tests	AKR-MA-0154	DS
Cathepsin L Activity Assay (F)	100 tests	AKR-MA-0375	DS
Cell-Based Glutathione Detection Assay	100 tests	AKR-MA-0294	DS
Cholesterol Detection Kit (cell-based)	100 tests	AKR-MA-0167	DS
Cholesterol-Cholesterol Ester Assay	100 tests	AKR-MA-0119	DS
Choline Kinase Activity Assay	100 tests	AKR-MA-0200	DS
Choline/Acetylcholine Assay	100 tests	AKR-MA-0152	DS
Cholinesterase Activity Assay	100 tests	AKR-MA-0257	DS
Chymotrypsin Activity Assay	100 tests	AKR-MA-0181	DS
Citrate Synthase Activity Assay	100 tests	AKR-MA-0234	DS
Cobalt Assay	500 tests	AKR-MA-0258	DS
Coenzyme A Assay	100 tests	AKR-MA-0236	DS
Collagenase Activity Assay	100 tests	AKR-MA-0195	DS
COX-2 Inhibitor Screening Kit	100 tests	AKR-MA-0212	DS
Creatine Assay (C/F)	100 tests	AKR-MA-0259	DS
Creatine Kinase Activity Assay	100 tests	AKR-MA-0171	DS
Creatinine Assay	100 tests	AKR-MA-0121	DS
Crystal Violet Cell Cytotoxicity Assay	1000 tests	AKR-CPT-0102	DS
Cyclooxygenase-1 (COX-1) Inhibitor Screening Kit	100 tests	AKR-MA-0215	DS
CYP 1A2 Activity Assay	200 tests	AKR-MA-0219	DS
CYP 2C19 Inhibitor Screening Assay	200 tests	AKR-MA-0390	DS



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CYP 2C9 Activity Assay	200 tests	AKR-MA-0237	DS
CYP 2C9 Inhibitor Screening Assay	200 tests	AKR-MA-0392	DS
CYP 2D6 Inhibitor Screening Assay	200 tests	AKR-MA-0391	DS
CYP 3A4 Inhibitor Screening Assay	200 tests	AKR-MA-0393	DS
CYP1A2 Inhibitor Screening Assay	200 tests	AKR-MA-0389	DS
CYP2C19 Activity Assay	200 tests	AKR-MA-0220	DS
CYP2D6 Activity Assay	200 tests	AKR-MA-0221	DS
Cytidine Deaminase Activity Assay	100 tests	AKR-MA-0385	DS
Cytochrome Oxidase Activity Assay	100 tests	AKR-MA-0260	DS
Cytochrome P450 3A4 (CYP3A4) Activity Assay Kit (F)	200 tests	AKR-MA-0213	DS
Diamine Oxidase Activity Assay	100 tests	AKR-MA-0262	DS
Dihydrofolate Reductase Activity Assay	100 tests	AKR-MA-0264	DS
Dihydrofolate Reductase Inhibitor Screening Kit	100 tests	AKR-MA-0265	DS
Dihydroxyacetone Phosphate Assay	100 tests	AKR-MA-0266	DS
DPPIV Activity Kit (F)	100 tests	AKR-MA-0268	DS
DS-DNA Assay (F)	2000 tests	AKR-MA-0269	DS
Elastin Assay	100 tests	AKR-MA-0192	DS
Endothelin Converting Enzyme	100 tests	AKR-MA-0369	DS
Enolase Activity Assay	100 tests	AKR-MA-0174	DS
Enteropeptidase/EK Activity Assay	100 tests	AKR-MA-0270	DS
Ethanol Assay	100 tests	AKR-MA-0131	DS
Factor VIIIa Activity Assay	100 tests	AKR-MA-0208	DS
FAD Assay	100 tests	AKR-MA-0271	DS
PicoSense Formaldehyde Assay	100 tests	AKR-MA-0273	DS
Formate Assay	100 tests	AKR-MA-0274	DS
FRAP Assay	200 tests	AKR-MA-0272	DS
Free Fatty Acid Assay	100 tests	AKR-MA-0111	DS
Free Sialic Acid (NANA) Assay	100 tests	AKR-MA-0346	DS
Fructose Assay	100 tests	AKR-MA-0275	DS
Fructose-6-phosphate (F)	100 tests	AKR-MA-0277	DS
α -L-Fucosidase Assay	100 tests	AKR-MA-0278	DS
Fumarase Assay	100 tests	AKR-MA-0279	DS
Fumarate Assay	100 tests	AKR-MA-0233	DS
Galactose Assay	100 tests	AKR-MA-0281	DS
Galactose/Lactose Assay	100 tests	AKR-MA-0280	DS
α -Galactosidase Activity Assay	100 tests	AKR-MA-0142	DS
Gamma Glutamyl Transferase Assay	100 tests	AKR-MA-0283	DS
Gamma Glutamyl Transferase Assay	100 tests	AKR-MA-0284	DS
GAPDH Activity Assay	100 tests	AKR-MA-0153	DS
Gelatinase (Gelatin Degradation/Zymography) Assay	100 tests	AKR-MA-0373	DS
Glucose / Sucrose Assay	100 tests	AKR-MA-0180	DS
Glucose Assay	100 tests	AKR-MA-0122	DS
Glucose Dehydrogenase Assay	100 tests	AKR-MA-0286	DS
Glucose Oxidase Activity Assay	100 tests	AKR-MA-0287	DS
Glucose/Maltose Assay	100 tests	AKR-MA-0317	DS



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Glucose-1-Phosphate Assay	100 tests	AKR-MA-0172	DS
Glucose-6-Phosphate Assay (C)	100 tests	AKR-MA-0288	DS
Glucose-6-Phosphate Assay (F)	100 tests	AKR-MA-0289	DS
Glucose-6-Phosphate Dehydrogenase Activity Assay (C)	100 tests	AKR-MA-0291	DS
Glucose-6-Phosphate Dehydrogenase Activity Assay, (F)	100 tests	AKR-MA-0224	DS
α -Glucosidase Activity Assay	100 tests	AKR-MA-0376	DS
β -glucuronidase Activity Assay	100 tests	AKR-MA-0290	DS
Glutamate Assay	100 tests	AKR-MA-0133	DS
Glutamate DH Assay (F)	100 tests	AKR-MA-0293	DS
Glutamine Assay	100 tests	AKR-MA-0164	DS
Glutathione (GSH, GSSG and Total) Assay	100 tests	AKR-MA-0227	DS
Glutathione Assay (DTNB) Assay	100 tests	AKR-MA-0295	DS
Glutathione Peroxidase Activity Assay	100 tests	AKR-MA-0137	DS
Glutathione Reductase Assay	200 tests	AKR-MA-0297	DS
Glycerol Assay	100 tests	AKR-MA-0298	DS
Glycerol-3-Phosphate Assay	100 tests	AKR-MA-0299	DS
Glycerol-3-Phosphate DH Activity Assay	100 tests	AKR-MA-0300	DS
Glycogen Assay	100 tests	AKR-MA-0112	DS
Glycogen Assay II	100 tests	AKR-MA-0136	DS
Glycolic Acid Assay (F)	100 tests	AKR-MA-0387	DS
Glycoprotein O-GalNAc (N-Acetylgalactosamine) Labeling and Detection Assay	100 tests	AKR-MA-0396	DS
GST Activity Assay (C)	100 tests	AKR-MA-0301	DS
GST Activity Assay (F)	100 tests	AKR-MA-0302	DS
HDAC6 Activity Assay	100 tests	AKR-MA-0330	DS
HDL Uptake Assay (F)	100 tests	AKR-MA-0383	DS
HDL-LDL Cholesterol Assay	100 tests	AKR-MA-0124	DS
Hemin Assay	100 tests	AKR-MA-0190	DS
Hemoglobin Assay	200 tests	AKR-MA-0193	DS
Hexokinase Assay	100 tests	AKR-MA-0204	DS
Histamine Assay (C)	100 tests	AKR-MA-0303	DS
Hydrogen Peroxide Assay	100 tests	AKR-MA-0145	DS
β -Hydroxybutyrate Assay (F)	100 tests	AKR-MA-0304	DS
Hydroxyproline Assay	100 tests	AKR-MA-0101	DS
Indican Assay	250 tests	AKR-MA-0377	DS
Inosine Assay	100 tests	AKR-MA-0173	DS
Inulin Assay	100 tests	AKR-MA-0197	DS
Invertase Activity Assay	100 tests	AKR-MA-0305	DS
Iodide Assay	100 tests	AKR-MA-0228	DS
Iron Assay	100 tests	AKR-MA-0103	DS
Isocitrate Assay	100 tests	AKR-MA-0306	DS
Isocitrate Dehydrogenase Assay	100 tests	AKR-MA-0307	DS
Isopropanol Dehydrogenase Activity Assay	100 tests	AKR-MA-0308	DS
α -Ketoglutarate Assay	100 tests	AKR-MA-0141	DS
Laccase Activity Assay	100 tests	AKR-MA-0379	DS



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Lactate Assay	100 tests	AKR-MA-0115	DS
D-Lactate Assay	100 tests	AKR-MA-0148	DS
D-Lactate Assay (F)	100 tests	AKR-MA-0267	DS
L-Lactate Assay II	100 tests	AKR-MA-0123	DS
Lactose Assay	100 tests	AKR-MA-0232	DS
L-Amino Acid Assay	100 tests	AKR-MA-0231	DS
LDH Activity Assay	500 tests	AKR-MA-0117	DS
LDH Based Cell Cytotoxicity Assay	500 tests	AKR-CPT-0101	DS
Leucine Aminopeptidase Activity Assay	100 tests	AKR-MA-0310	DS
Lipase Activity Assay I	100 tests	AKR-MA-0149	DS
Lipase Activity Assay III	100 tests	AKR-MA-0312	DS
Lipase II Assay	100 tests	AKR-MA-0311	DS
Lipid Extraction Kit	100 tests	AKR-PI-0101	DS
Lipid Peroxidation Assay	100 tests	AKR-MA-0102	DS
Lipolysis Assay	100 tests	AKR-MA-0189	DS
Live vs. Dead Cell Differentiation Staining Kit	392 tests	AKR-COS-0103	DS
Lysosomal Cytotoxicity Dual Staining Kit	50 tests	AKR-COS-0106	DS
Lysyl Oxidase Activity Assay	100 tests	AKR-MA-0313	DS
Magnesium Assay	100 tests	AKR-MA-0314	DS
L-Malate Assay	100 tests	AKR-MA-0315	DS
Malate Dehydrogenase Activity Assay	100 tests	AKR-MA-0316	DS
Maltose Assay	100 tests	AKR-MA-0318	DS
Mannitol Assay	100 tests	AKR-MA-0319	DS
Methanol Assay	100 tests	AKR-MA-0206	DS
Methylglyoxal Assay	100 tests	AKR-MA-0382	DS
Mitochondrial Complex I Activity Assay	100 tests	AKR-MA-0320	DS
Mitochondrial Complex III Activity Assay	100 tests	AKR-MA-0321	DS
MTS Cell Proliferation Assay	10000 tests	AKR-CPT-0104-10000	DS
MTS Cell Proliferation Assay	250 tests	AKR-CPT-0104-250	DS
MTS Cell Proliferation Assay	500 tests	AKR-CPT-0104-500	DS
MTT Cell Proliferation Assay	1000 tests	AKR-CPT-0103	DS
MTS Cell Proliferation Assay	2500 tests	AKR-CPT-0104-2500	DS
MTS Cell Proliferation Assay	5000 tests	AKR-CPT-0104-5000	DS
Myeloperoxidase Activity Assay	100 tests	AKR-MA-0135	DS
Myeloperoxidase Inhibitor Screening Kit	200 tests	AKR-MA-0381	DS
Myeloperoxidase Peroxidation Activity Assay	100 tests	AKR-MA-0322	DS
NAD/NADH Assay	100 tests	AKR-MA-0114	DS
NADH Assay (F)	100 tests	AKR-MA-0323	DS
NADPH Assay (F)	100 tests	AKR-MA-0324	DS
NADP-NADPH Assay	100 tests	AKR-MA-0126	DS
Nepriylsin Activity Assay	100 tests	AKR-MA-0395	DS
Neuraminidase Activity Assay	100 tests	AKR-MA-0325	DS
Neutral Red Cytotoxicity Assay	1000 tests	AKR-CPT-0107	DS
Neutrophil Elastase Activity Assay (fluorometric)	100 tests	AKR-MA-0156	DS
Nickel Assay	100 tests	AKR-MA-0170	DS



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Nitric Oxide Assay	200 tests	AKR-MA-0205	DS
Nitric Oxide Assay (F)	200 tests	AKR-MA-0326	DS
Nitric Oxide Synthase Activity Assay	100 tests	AKR-MA-0327	DS
Oil Red O Lipid Staining Kit	200 tests	AKR-COS-0101	DS
Oxalaoacetate Assay	100 tests	AKR-MA-0329	DS
Oxalate Assay Kit	100 tests	AKR-MA-0222	DS
Oxalate Decarboxylase Activity Assay	100 tests	AKR-MA-0328	DS
Oxalate Oxidase Activity Assay	100 tests	AKR-MA-0380	DS
p300 Inhibitor Screening Assay	100 tests	AKR-MA-0146	DS
p-Aminohippuric Acid Assay	100 tests	AKR-MA-0230	DS
Paraoxonase 1 Activity Assay	100 tests	AKR-MA-0331	DS
PEP Assay	100 tests	AKR-MA-0332	DS
PEP Carboxylase Activity Assay	100 tests	AKR-MA-0335	DS
Peroxidase Activity Assay	200 tests	AKR-MA-0333	DS
Phenylalanine Assay	100 tests	AKR-MA-0147	DS
Phosphate Assay	500 tests	AKR-MA-0105	DS
Phosphatidylcholine Assay	100 tests	AKR-MA-0334	DS
Phosphatidylethanolamine Assay (F)	100 tests	AKR-MA-0394	DS
Phosphodiesterase Activity Assay	100 tests	AKR-MA-0160	DS
Phosphofructokinase Activity Assay	100 tests	AKR-MA-0165	DS
Phosphoglucomutase Assay	100 tests	AKR-MA-0336	DS
Phosphoglucose Isomerase Assay	100 tests	AKR-MA-0339	DS
Phosphoglycerate Mutase Activity Assay (C/F)	100 tests	AKR-MA-0209	DS
Phospholipase A2 Activity Assay	100 tests	AKR-MA-0341	DS
Phospholipase C Activity Assay (C)	100 tests	AKR-MA-0374	DS
Phospholipase D Activity Assay	100 tests	AKR-MA-0342	DS
Phospholipid Assay	100 tests	AKR-MA-0217	DS
Plasma Kallikrein Activity Assay	100 tests	AKR-MA-0309	DS
Plasmin Activity Assay	100 tests	AKR-MA-0177	DS
Polyamine Assay	200 tests	AKR-MA-0214	DS
Prostate Specific Antigen Activity Assay	100 tests	AKR-MA-0343	DS
Proteasome Activity Assay	100 tests	AKR-MA-0344	DS
Protein Carbonyl Assay	100 tests	AKR-MA-0150	DS
Protein Disulfide Isomerase Assay	100 tests	AKR-MA-0386	DS
Protein Myristoylation Assay	100 tests	AKR-COS-0109	DS
Protein Quantitation Kit (BCA)	1000 tests	AKR-MA-0292	DS
Purine Nucleoside Phosphorylase Activity Assay	100 tests	AKR-MA-0223	DS
Purine Nucleoside Phosphorylase Activity Assay	100 tests	AKR-MA-0225	DS
Pyruvate Assay	100 tests	AKR-MA-0129	DS
Pyruvate Carboxylase Activity Assay	100 tests	AKR-MA-0216	DS
Pyruvate Dehydrogenase Activity Assay	100 tests	AKR-MA-0166	DS
Pyruvate Kinase Activity Assay	100 tests	AKR-MA-0107	DS
Rapid Apoptotic DNA Ladder Detection	50 tests	AKR-MA-0196	DS
Rapid Cell Proliferation Assay	2500 tests	AKR-CPT-0105-2500	DS
Rapid Cell Proliferation Assay	500 tests	AKR-CPT-0105-500	DS



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Ready to Use Cell Proliferation Reagent, WST-1	2500 tests	AKR-CPT-0106	DS
Sample Deproteinizing Kit (PCA)	200 tests	AKR-PI-0103	DS
Sample Deproteinizing Kit (TCA)	200 tests	AKR-PI-0102	DS
Sarcosine Assay	100 tests	AKR-MA-0207	DS
Senescence Staining Assay	250 tests	AKR-COS-0102	DS
Sorbitol Assay	100 tests	AKR-MA-0348	DS
Sphingomyelin Assay	100 tests	AKR-MA-0347	DS
Sphingomyelinase Activity Assay	100 tests	AKR-MA-0349	DS
Starch Assay	100 tests	AKR-MA-0350	DS
Streptokinase Assay	100 tests	AKR-MA-0368	DS
Succinate Assay	100 tests	AKR-MA-0134	DS
Succinyl CoA Synthetase Activity Assay	100 tests	AKR-MA-0351	DS
Sulfatase Activity Assay	100 tests	AKR-MA-0163	DS
Superoxide Dismutase Assay	100 tests	AKR-MA-0108	DS
TACE Inhibitor Screening	200 tests	AKR-MA-0388	DS
Thrombin Assay	100 tests	AKR-MA-0352	DS
TIBC and Serum Iron Assay	100 tests	AKR-MA-0372	DS
Tissue Plasminogen Activator Activity Assay	100 tests	AKR-MA-0370	DS
TMRE Mitochondrial Membrane Potential Assay	100 tests	AKR-MA-0353	DS
Total Antioxidant Capacity Assay	100 tests	AKR-MA-0106	DS
Total Bile Acids Assay	100 tests	AKR-MA-0186	DS
Total Carbohydrate Assay	100 tests	AKR-MA-0144	DS
Total Collagen Assay (Perchlorate-Free)	100 tests	AKR-MA-0203	DS
Total Glutathione Assay (F)	100 tests	AKR-MA-0296	DS
Total Glutathione Assay (Monochlorobimane)	100 tests	AKR-MA-0201	DS
Total Sulfite Assay	100 tests	AKR-MA-0184	DS
Transketolase Activity Assay (F)	100 tests	AKR-MA-0202	DS
Triglyceride Assay	100 tests	AKR-MA-0110	DS
Triglyceride Assay (F)	100 tests	AKR-MA-0354	DS
Triose Phosphate Isomerase Assay	100 tests	AKR-MA-0355	DS
Trypsin Activity Assay	100 tests	AKR-MA-0128	DS
Tryptophan Assay	100 tests	AKR-MA-0356	DS
Tyrosinase Inhibitor Screening Kit	100 tests	AKR-MA-0178	DS
Tyrosine Assay	100 tests	AKR-MA-0229	DS
UCH-L1 Inh Screening Kit	100 tests	AKR-MA-0358	DS
UCH-L3 Deubiquitinase Inhibitor Screening Kit	100 tests	AKR-MA-0359	DS
UGT Activity Assay / Ligand Screening Assay	100 tests	AKR-MA-0360	DS
Universal Kinase Activity Assay	200 tests	AKR-MA-0371	DS
Urate Oxidase Assay	100 tests	AKR-MA-0362	DS
Urea Assay	100 tests	AKR-MA-0118	DS
Urease Assay	100 tests	AKR-MA-0361	DS
Uric Acid Assay	100 tests	AKR-MA-0151	DS
Urokinase Activity Assay	100 tests	AKR-MA-0363	DS
Xanthine Oxidase Assay	100 tests	AKR-MA-0364	DS
Xanthine/Hypoxanthine Assay	100 tests	AKR-MA-0175	DS



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β -Xylosidase Activity Assay	100 tests	AKR-MA-0365	DS
Zinc Assay	100 tests	AKR-MA-0367	DS

Isolation & Sample Preparation Kits

3T3-L1 Differentiation Kit (differentiation medium)	For 100 ml	AKR-MA-0263	DS
Bacterial Genomic DNA Isolation Kit	100 tests	AKR-PI-0109	DS
Carrez Clarification Reagent	200 tests	AKR-PI-0110	DS
Core Histone Isolation Kit	100 tests	AKR-PI-0111	DS
CytoFrac Cell Fractionation Kit	50 tests	AKR-PI-0106	DS
Genomic DNA (Mammalian) Isolation Kit	50 tests	AKR-MA-0285	
Lipopolysaccharide (LPS) Isolation Kit	10 tests	AKR-PI-0112	DS
Lysosome Isolation Kit	50 tests	AKR-PI-0108	DS
Mammalian Cell Extraction Kit	500 tests	AKR-PI-0113	DS
Microsome Isolation Kit	50 tests	AKR-PI-0114	DS
Mitochondria Cytosol Fractionation	100 tests	AKR-PI-0116-100	DS
Mitochondria Cytosol Fractionation	25 tests	AKR-PI-0116-25	DS
Mitochondria Isolation for Tissue/Cultured Cells	50 tests	AKR-PI-0115	DS
Mitochondrial DNA Isolation Kit	50 tests	AKR-PI-0105	DS
Nuclear-Cytosol Fractionation Kit	100 tests	AKR-PI-0107-100	DS
Nuclear-Cytosol Fractionation Kit	25 tests	AKR-PI-0107-25	DS
Plasma Membrane Isolation Kit	50 tests	AKR-PI-0104	DS
Plasma Membrane Isolation Kit	10 tests	AKR-PI-0118	DS
Protease Inhibitor Cocktail	for 125 ml	AKR-PIC-0100	DS
Virus Precipitation Kit	200 tests	AKR-PI-0117-200	DS
Virus Precipitation Kit	50 tests	AKR-PI-0117-50	DS
Western Blot Reagent	50 ml tests	AKR-ECL-0050	
Western Blot Reagent	500 ml tests	AKR-ECL-0500	
Yeast Mitochondria Isolation Kit	50 tests	AKR-PI-0119	DS
Yeast Nuclei Isolation Kit	50 tests	AKR-PI-0120	DS



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Metabolism and other Assay Kits

AkrivisBio Assays

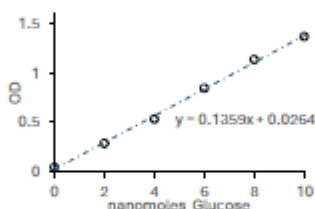
What makes us different ?

It's in our name. Akrivis is an anglicization of the Greek word ακριβής, meaning precise. We strive in big and small ways to make our kits better than what you've used before. We believe that they should be easy to use and at least as precise as the data you're working with. It doesn't help to have an assay with a variability of 50% or more if you're seeing important differences of 10 – 30% between controls and experimental samples.

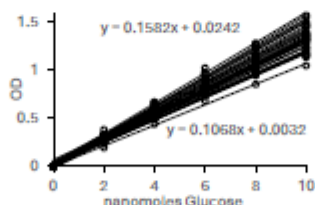
We've been doing this for almost 20 years. In that time, we've seen things, we've acquired a lot of data regarding different assays, what makes them work and what makes them work better. How to extract the most meaningful information from them. One reason we started AkrivisBio was our observation of the lot to lot variation of commercial kits. These are used in academic and corporate research where your data is only as good as the yardstick used to characterize it. We have accumulated years of data on multiple lots of many types of assay kits and the consistency you would expect is just not there. We will present a few examples below, so that what we're saying becomes crystal clear:

The data are from various lots of multiple assays from a major manufacturer of assay kits whose product can be found under a number of different brands.

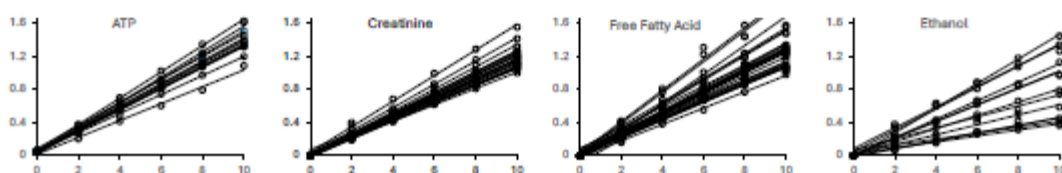
Let's start with a very simple glucose assay. It has only 2 enzymes, glucose oxidase and peroxidase. In the presence of glucose, glucose oxidase forms hydrogen peroxide which is used by peroxidase to oxidize one of a variety of different substrates. In most commercial kits, ADHP is used because it's very sensitive. So, what does a standard curve look like? In most cases, something like this:



One could assume that given the simplicity of this assay, that multiple lots over the course of a few years would all give essentially the same result. The graph below is a sampling of 35 separate lots of a glucose assay kit over a span of about 5 years which passed the QC test criteria and were sold through a number of different companies:



There is a significant variability between these standard curves, giving slopes which varied between about 0.107 and 0.158, almost a 50% difference from the highest to the lowest. It's hard to imagine how a researcher who is looking at, say, the blood glucose concentration of his test animals over a period of time being able to have much confidence in any data not showing at least a 50% change in the data readings. You see the same trend for all assays, here are a few more examples:





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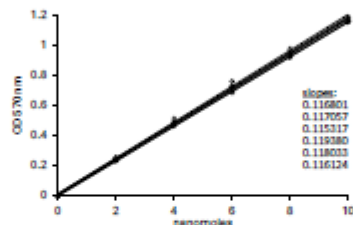
Metabolism and other Assay Kits

AkrivisBio Assays

One of the problems with being a new company is that you have much less credibility than an established company. We don't have years of data with many multiple lots of each of our assays to show the reproducibility we build into them. There is, however, another way to demonstrate this. In general, there are groups of assays which all work on the same principle. One of these groups is based on the action of a class of enzymes, oxidases on their different substrates, forming hydrogen peroxide in the process which is subsequently utilized by peroxidase to convert one of an assortment of various peroxidase substrates to an oxidized product with enhanced color or fluorescence. The one we use is ADHP (10-Acetyl-3,7-dihydroxyphenoxazine) which produces both intense color and fluorescence when it is converted into resorufin.

The important point is that the stoichiometry of all of the oxidases is the same. One substrate gives one hydrogen peroxide gives one resorufin. It doesn't matter which assay is used. As long as the assay conditions are essentially the same you will get the same standard curve, whether the substrate is glucose or cholesterol or ethanol or any other one of many tens if not hundreds of biochemicals for which there is an associated oxidase. This means we can superimpose different assays to show the reproducibility.

Here is a graph of several standard curves, for several different molecules, namely, glucose, ATP, creatinine, ethanol, free fatty acid and hydrogen peroxide itself.



The difference between the highest and lowest standard curves is just 3.5%, clearly, much more consistent results, providing you with increased confidence in your experimental data. There are some substrates which do not give the same slope in their standard curve. Uric acid is one such, due to its antioxidant properties neutralizing some of the hydrogen peroxide produced, resulting in a slope about 25% of that seen here. Xanthine is another. It is oxidized in 2 steps, first to hypoxanthine, then to urate, so the standard curve is 2X steeper than that shown here.

Another common detection mechanism is the use of water-soluble tetrazoliums (WST's). We prefer WST-8, but others use similar chemicals to detect biochemicals which can be oxidized through the action of dehydrogenases which form NADH or NADPH. There are a wide variety of chemicals susceptible to dehydrogenases. Following are sets of standard curves from multiple lots of different assays:

