



AmyJet Scientific  
艾美捷科技

# 代谢检测

AkrivisBio

癌症  
心血管疾病  
细胞基础检测  
糖尿病  
表观遗传学  
免疫学  
传染病  
肾脏疾病  
肝脏疾病  
神经科学  
肥胖症  
氧化应激  
样本制备



AkrivisBio 中国区总代理, 艾美捷科技, 400-6800-868



我们唯一的限制，在于我们的集体想象力！

## 缩写

### 试剂盒名称

(C) = Colorimetric | (F) = Fluorometric | (FC) = Flow Cytometry | (CB) = Cell Based

### 技术平台

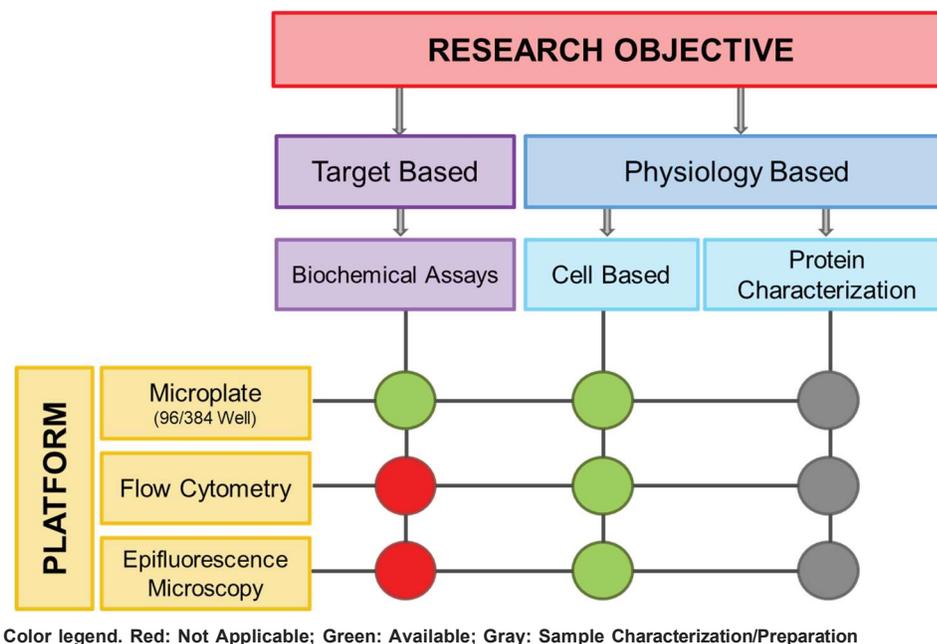
FM = Fluorescence Microscopy | IHC = Immunohistochemistry | M = Microplate | NA = Not Applicable | PCR = Polymerase Chain Reaction | CB = Cell-Based |  
CM = Confocal Microscopy | SB = Southern Blotting | P = Protein |  
SDS = SDS-PAGE | WB = Western Bolt | EIA = ELISA | FC = Flow Cytometry |  
PD = Plasmids

### 样本类型

U = Urine | S = Serum | P = Plasma | CL = Cell Lysate | TL = Tissue Lysate | PP = Protein Preparation | CB = Intact Cells | NA = Not Applicable | O = Others | Ab = Antibody

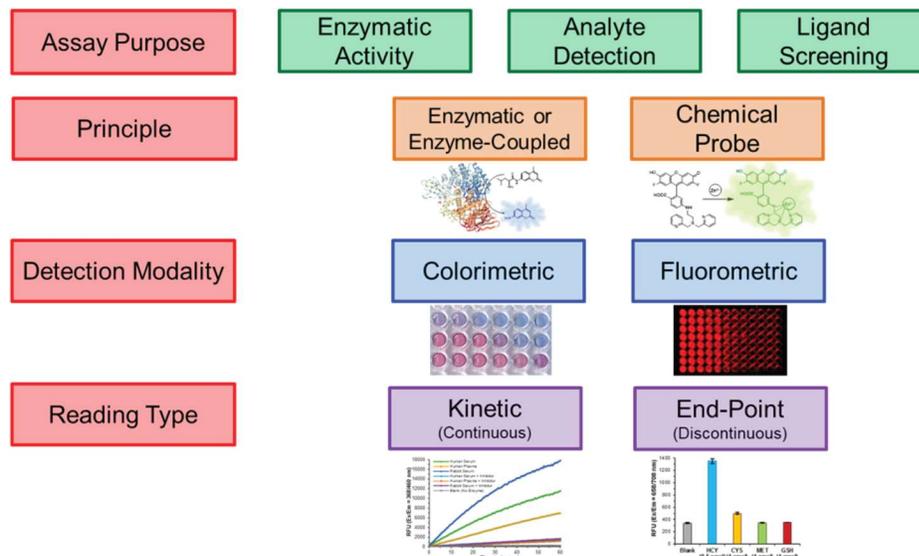
# AkrivisBio Assay 产品系列

AkrivisBio 提供一系列全面的体外生物检测产品，适用于癌症、糖尿病、肥胖症、心血管疾病、肝脏疾病、肾脏疾病、阿尔茨海默病和传染病等众多疾病相关领域的研究，也适用于中间代谢、神经科学、表观遗传学、氧化应激、干细胞、样本制备以及脂质和蛋白质提取等研究领域。AkrivisBio 的高质量生物检测产品具备特异性、灵敏度、重复性和性价比。我们的使命是基于前沿研究提供创新产品，以满足您的科研需求。AkrivisBio 生物检测产品可与一些最常见和流行的科研仪器（如微孔板读数仪、流式细胞仪和显微镜）配合使用。



## 96 孔微孔板检测法

AkrivisBio 的微孔板检测产品系列丰富多样，可广泛用于酶活性的检测/定量分析、生物样本中特定分析物的测量以及高通量抑制剂筛选。我们的产品结合了专有的酶和化学探针，经过精心设计和表征，用于检测相关靶标。我们的产品已使用真实生物样本（血液、血清、血浆、尿液、唾液、细胞和组织裂解物以及食品）进行了测试和验证，确保分析物在真实世界的生物基质中可检测。

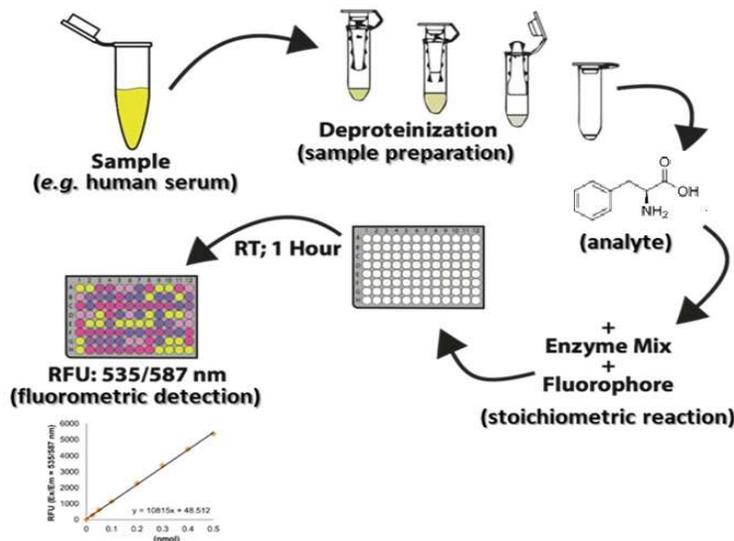


## 96 孔微孔板检测法原理

我们许多最受欢迎的检测试剂盒均采用定制工程酶作为检测系统。与其它检测方法相比，酶法检测系统具有更高的灵敏度、特异性和准确性。

我们的检测方法不涉及繁琐耗时的样本制备流程。在许多情况下，无需任何样本制备步骤即可直接测量分析物。我们的产品设计保质期长，无需昂贵的仪器、专业人员、多次洗涤或长时间孵育。能够随时间测量吸光度和荧光的温控微孔板读数仪是我们用户友好型试剂盒运行和执行所需的唯一仪器。

### Phenylalanine Assay Kit (MA-0147) Principle



## 微孔板检测法：探针选择

样本应用或许是选择最适合您研究需求产品的最重要因素。这将决定所需的检测灵敏度，从而确定首选的检测方法。我们最受欢迎的产品使用稳定的生色团和荧光团，这些探针随时间显示出强烈的信号。**Resazurin** 是最灵敏的探针之一，它能够检测到每个分析样本孔中少于 20 皮摩尔的分析物。

探针名称	检测方法	线性范围 (nmol)	检测光谱	微孔板类型
<b>WST</b>	Colorimetric	0-10	460 nm	Clear
<b>ADHP</b>	Colorimetric	0-10	570 nm	Clear
	Fluorometric	0-1	535/587 nm	Black/White*
<b>Resazurin</b>	Fluorometric	0-0.2	535/587 nm	White
<b>Others</b>	Colorimetric	0-100	(varies)	Clear
	Fluorometric	0-0.5	(varies)	Black/White*

\*推荐使用白色微孔板以增强荧光信号，使用黑色微孔板以降低背景和仪器噪声。

# 代谢检测之亮点

代谢在生理学、细胞生物学和医学等诸多领域中发挥着关键作用。随着人们逐渐认识到许多常见人类疾病（如癌症、糖尿病、肥胖症、低血糖症、低血脂症、苯丙酮尿症、神经退行性疾病等）是由于代谢途径受到干扰而引发的，代谢研究得到了迅猛发展。因此，了解代谢的变化以及可能的异常情况是疾病导向研究的一个重要方面。

另一方面，活性氧（ROS）是细胞正常代谢功能的内源性产物，也可能来自外部来源，它对细胞构成了严重威胁，因为暴露于ROS可能会对DNA、蛋白质和脂质造成严重损伤。在不同类型的癌症和各种神经性疾病中，识别特定的氧化损伤形式往往是关注的焦点。抗氧化防御对于最小化ROS的波动至关重要，它决定了降低癌症风险或与年龄相关的功能衰退的疾病治疗方案。

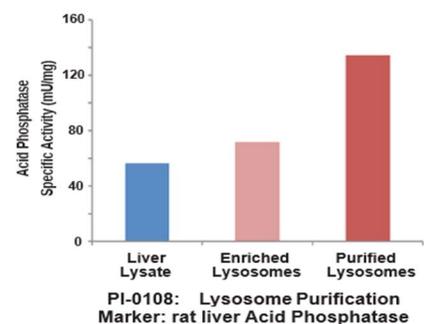
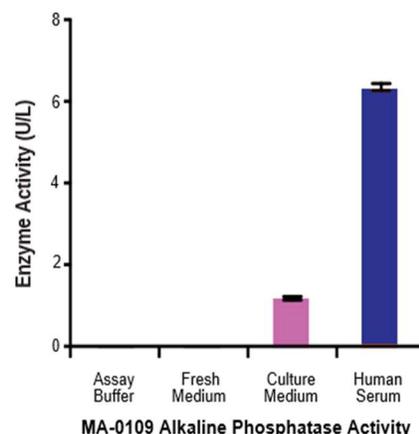
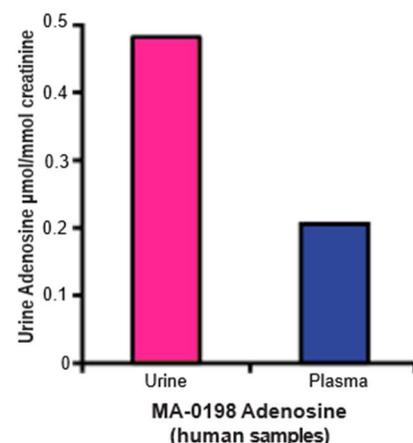
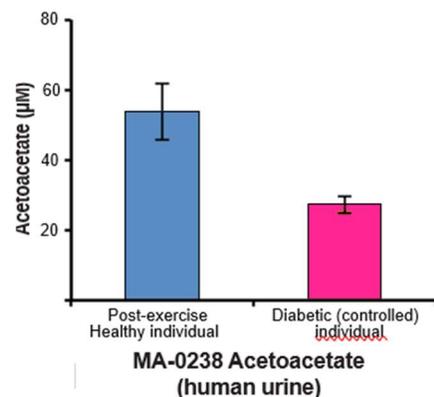
然而，通过研究外源因素引起的细胞相互作用，可以更好地描述生物过程。临床前研究和临床研究依赖于检测细胞行为的不同方面（如细胞周期的进展、迁移、侵袭）以及测量细胞中关键构建块含量的检测法，这些检测法通常用于监测培养细胞的健康状况以及它们对各种刺激（如迁移诱导剂、细胞周期阻滞药物、胆固醇转运抑制剂等）的反应。

AkrivisBio 骄傲地提供最广泛的代谢检测法组合，涵盖从检测酶活性、代谢物（如碳水化合物、脂质、氨基酸、无机离子、血清成分、辅酶和辅因子）到氧化应激、糖酵解途径以及中间代谢等诸多方面。此外，我们还提供一系列抗氧化剂、关键ROS成分的抑制剂/激活剂，以及不断扩大的用于研究细胞生物学基本过程的检测法选择。

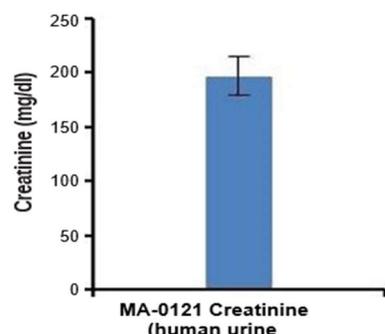
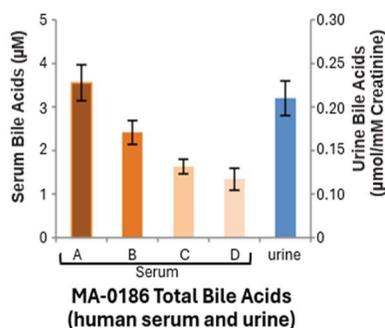
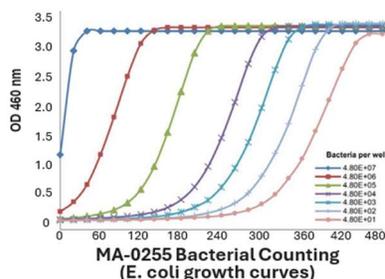
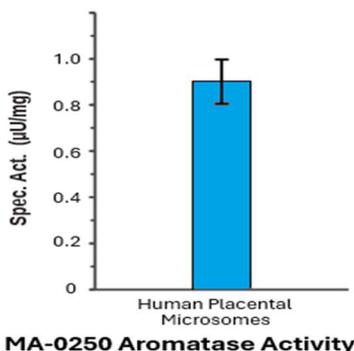
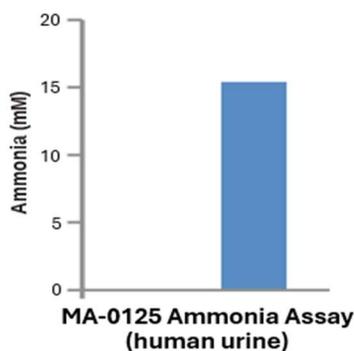
在此，我们为您呈现一系列流行的代谢检测法，并提供有助于您开展代谢相关研究的实用技术信息。本宣传册中包含了检测方法、平台、样本应用以及检测灵敏度（针对选定案例）。本宣传册突出了针对现有和新兴研究及药物发现领域的独特检测法套装：

- 衰老研究
- 酒精代谢
- 阿尔茨海默病
- 氨基酸代谢
- 氨代谢
- 细胞凋亡
- ATP/ADP 代谢
- 癌症与转移
- 癌细胞代谢
- 碳水化合物代谢
- 心血管疾病
- 细胞损伤与氧化应激
- 细胞分离与代谢
- 胆固醇相关代谢
- 肌酐与肾脏功能障碍
- 糖尿病相关检测
- 药物代谢
- 酶与辅因子检测
- 表观遗传学产品
- 脂肪酸代谢
- 葡萄糖代谢
- 糖原代谢
- 羟脯氨酸与骨骼疾病
- 传染病
- 铁代谢
- 肾脏疾病
- 乳酸与大脑代谢
- 乳酸脱氢酶与癌症
- 脂质过氧化与代谢
- 肝脏疾病
- 代谢综合征
- 矿物质与离子代谢
- 线粒体代谢
- 多药耐药性研究
- NAD/NADH 与氧化还原代谢
- 神经科学产品
- 肥胖相关检测
- 磷酸盐与磷酸酶检测
- 样本制备试剂盒
- 转氨酶与肝脏疾病
- 甘油三酯代谢
- 尿素排泄与器官功能障碍

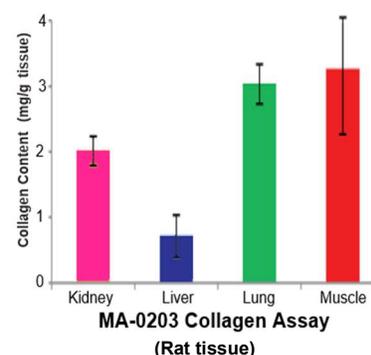
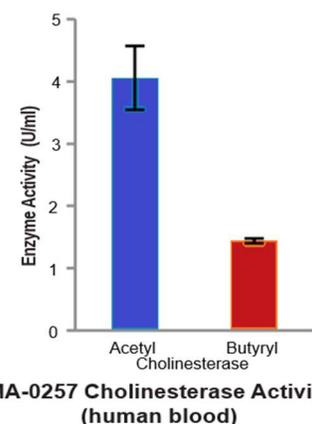
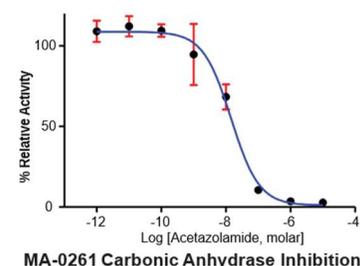
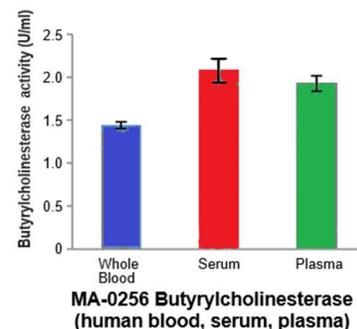
Kit Name (A-Z)	Cat. No.	Platform	Sample Type
<b>A</b>			
Acetate Assay (C)	MA-0130	M	S, P, TL, CL, O
Acetoacetate Assay (C)	MA-0238	M	S, P, U, O
Acetylcholinesterase Activity Assay (C/F)	MA-0239	M	S, P, TL, CL
Acetyl-CoA Assay (F)	MA-0127	M	TL, O
Acid Phosphatase Activity Assay (C)	MA-0240	M	S, P, U, CL
Acid Phosphatase Activity Assay (F)	MA-0241	M	S, P, U, CL
Aconitase Activity Assay (C)	MA-0235	M	CL, TL
Adenosine Assay (C/F)	MA-0198	M	P, U
Adipogenesis Assay (C/F)	MA-0199	M	CL
ADP Assay (C)	MA-0242	M	TL, CL
ADP Assay (C/F)	MA-0243	M	TL, CL
ADP Assay Kit (F)	MA-0244	M	TL, CL
Alanine Aminotransferase Activity Assay (C/F)	MA-0116	M	TL, CL, S
Alanine Assay (C/F)	MA-0245	M	CL, TL, S
Albumin (Albuminuria) Assay (F)	MA-0246	M	U, O
Albumin (BCG) Assay (C)	MA-0247	M	S
Alcohol Dehydrogenase Activity Assay (C)	MA-0162	M	TL, CL
Aldehyde Dehydrogenase Activity Assay	MA-0169	M	TL, CL
Aldehyde Dehydrogenase Activity Assay II (F)	MA-0248	M	S, TL, CL
Aldolase Activity Assay (C)	MA-0176	M	TL, CL, S, P
Aldose Reductase Inhibitor Screening Kit (C)	MA-0211	M	TL, CL
Alkaline Phosphatase Activity Assay (C)	MA-0109	M	S, P, CL
Alkaline Phosphatase Activity Assay (F)	MA-0226	M	S, P, U, CL, O
Alkaline Phosphatase Staining Kit	COS-0105	M	C
Alpha-Ketoglutarate Assay (C/F)	MA-0141	M	TL
Alpha-Ketoglutarate Dehydrogenase Activity Assay (C)	MA-0249	M	TL, CL
L-Amino Acid Assay (C/F)	MA-0231	M	TL, CL, S
Ammonia Assay (C/F)	MA-0125	M	TL, CL
Ammonia Assay II (C)	MA-0140	M	O
Amylase Activity Assay (C)	MA-0138	M	S, U, TL
Angiotensin I Converting Enzyme Inhibitor Screening Kit (C)	MA-0188	M	NA
Angiotensin II Converting Enzyme Activity Assay (F)	MA-0158	M	TL, S, P, CL
Arginase Activity Assay (C)	MA-0210	M	TL, CL
L-Arginine Assay (C)	MA-0185	M	TL, CL, S, P, O
Aromatase (CYP19A) Activity Assay (F)	MA-0250	M	TL, CL, O
Ascorbic Acid Assay II (FRASC) (C)	MA-0252	M	TL, CL
Ascorbic Acid Assay (C/F)	MA-0251	M	TL, CL
Asparaginase Activity Assay (C/F)	MA-0159	M	S, TL, CL
Aspartate Aminotransferase Activity Assay (C)	MA-0120	M	TL, S
Aspartate Assay (C/F)	MA-0253	M	S, TL, CL
ATP Assay (C/F)	MA-0113	M	TL, CL
ATPase Activity Assay (C)	MA-0254	M	TL, CL
<b>B</b>			
Bacterial Cell Counting Assay (500 wells) (C)	MA-0255	M	O
Bacterial Cell Counting Assay (2500 wells) (C)	MA-0255	M	O
Bacterial Genomic DNA Isolation Kit	PI-0109	NA	O

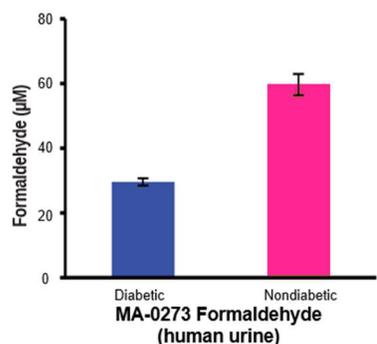
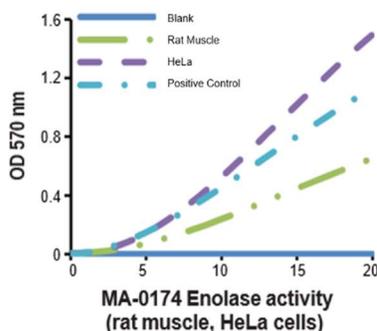
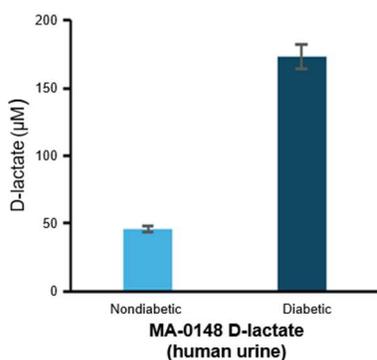
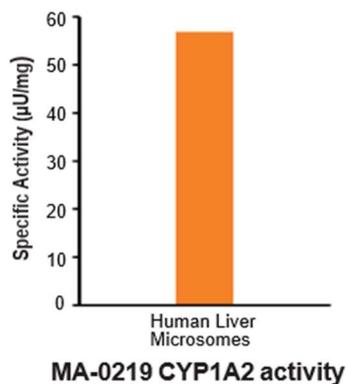


Kit Name (A-Z)	Cat. No.	Platform	Sample Type
Total Bile Acids (TBA) Assay Kit (C)	MA-0186	M	S, P, U, O
Branched Chain Amino Acid (Leu/Ile/Val) Assay (C)	MA-0157	M	TL, CL, S
Butyrylcholinesterase Activity Assay (C)	MA-0256	M	S, P, TL
<b>C</b>			
Calcium Assay (C)	MA-0104	M	S, U
Total Carbohydrate Assay (C)	MA-0144	M	CL, TL, O
Carbonic Anhydrase Activity Assay (C)	MA-0187	M	O, S
Carbonic Anhydrase inhibitor Screening Kit	MA-0261	M	PP
Carrez Clarification Reagent	PI-0110	NA	O
Catalase Activity Assay (C/F)	MA-0143	M	TL, CL
L-Carnitine Assay (C/F)	MA-0161	M	CL, TL
Caspase-1 Activity Assay	MA-0194	M	CL
Caspase-3 Activity Assay (C)	MA-0191	M	CL
Caspase-3 Activity Assay II (F)	MA-0218	M	CL
Total Cholesterol and Cholesterol Ester Assay (C/F)	MA-0119	M	TL, CL, S
HDL/LDL Cholesterol and Cholesteryl Ester Assay (C/F)	MA-0124	M	S, TL, CL
Choline/Acetylcholine Assay (C/F)	MA-0152	M	S, P, CL, O
Cholesterol Staining Kit (Cell-based) (F)	MA-0167	M, FM	CB
CaspACTIVE Active Caspase-9 Staining Kit	COS-0107	FM, FC	CB, O
Cathepsin B Activity Assay (F)	MA-0168	M	TL, CL
Cathepsin D Activity Assay (F)	MA-0154	M	TL, CL
Ready-to-use Cell Proliferation Reagent, WST-1 (C)	CPT-0106	CB	CB
Rapid Cell Proliferation Assay 500 wells (C)	CPT-0105	CB	CB
Rapid Cell Proliferation Assay 2500 wells (C)	CPT-0105	CB	CB
Choline Kinase Activity Assay (F)	MA-0200	M	TL, CL
Cholinesterase Activity Assay (C)	MA-0257	M	O
Chymotrypsin Activity Assay (F)	MA-0181	M	TL, CL, P
Citrate Assay (C/F)	MA-0139	M	TL, CL
Citrate Synthase Activity Assay (C)	MA-0234	M	TL, CL
Cobalt Assay (C)	MA-0258	M	O
Coenzyme A Assay (C/F)	MA-0236	M	CL, TL
Total Collagen Assay (Perchlorate-Free) (C)	MA-0203	M	TL, S, U, O
Collagenase Activity Assay (C)	MA-0195	M	O
Creatine Assay (C/F)	MA-0259	M	S, P, CL
Creatine Kinase Activity Assay (C)	MA-0171	M	S, P, TL, CL
Creatinine Assay (C/F)	MA-0121	M	S, U, O
Crystal Violet Cell Cytotoxicity Assay (C)	CPT-0102	CB	CB
Cyclooxygenase-1 (COX-1) Inhibitor Screening Kit (F)	MA-0215	M	PP
Cyclooxygenase-1 (COX-2) Inhibitor Screening Kit (F)	MA-0212	M	PP
Cytochrome Oxidase Activity Assay (C)	MA-0260	M	CL, TL, O
Cytochrome P450 1A2 (CYP1A2) Activity Assay Kit (F)	MA-0219	M	TL, CL, PP
Cytochrome P450 2C19 (CYP2C19) Activity Assay Kit (F)	MA-0220	M	TL, CL, PP
Cytochrome P450 2C9 (CYP2C9) Activity Assay Kit (F)	MA-0237	M	TL, CL, PP
Cytochrome P450 2D6 (CYP2D6) Activity Assay Kit (F)	MA-0221	M	TL, CL, PP
Cytochrome P450 3A4 (CYP3A4) Activity Assay Kit (F)	MA-0213	M	TL, CL, PP



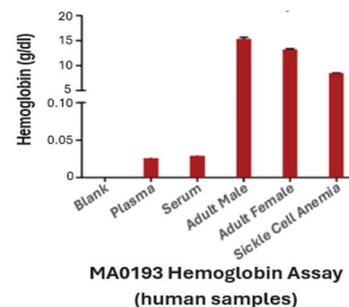
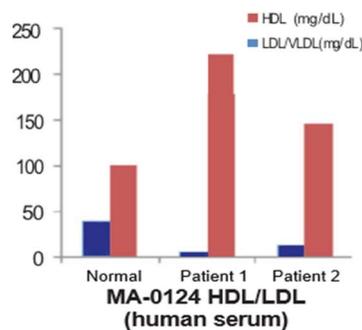
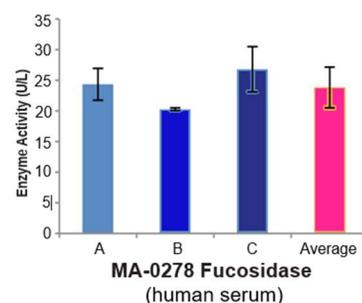
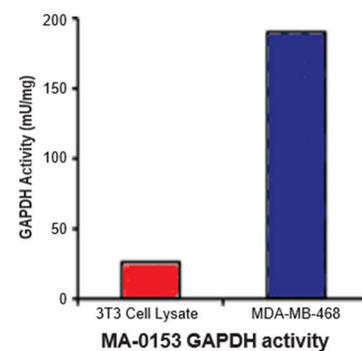
Kit Name (A-Z)	Cat. No.	Platform	Sample Type
<b>D</b>			
Deproteinizing Sample Preparation Kit (PCA)	PI-0103	M	S, P, U, CL, O
Deproteinizing Sample Preparation Kit (TCA)	PI-0102	M	S, P, U, CL, O
Diamine Oxidase Activity Assay (F)	MA-0262	M	CL, TL
3T3 Differentiation Kit	MA-0263	M	CB
Dihydrofolate Reductase Activity Assay (C)	MA-0264	M	TL, CL, PP
Dihydrofolate Reductase Inhibitor Screening Kit (C)	MA-0265	M	TL, CL, PP
Dihydroxyacetone Phosphate Assay (F)	MA-0266	M	PP, NA
D-Lactate Assay (C)	MA-0148	M	TL, CL, S, P
D-Lactate Assay (F)	MA-0267	M	S, P, U, TL, CL, O
DPP4 Activity Assay (F)	MA-0268	M	CL, TL, S
Rapid Apoptotic DNA Ladder Detection	MA-0196	SDS	CL
DS-DNA Assay (F)	MA-0269	M	TL, CL
<b>E</b>			
Elastin (C)	MA-0192	M	TL, CL
Endothelin Converting Enzyme 1 Activity Assay (F)	MA-0369	M	TL, CL, PP
Enolase Activity Assay (C/F)	MA-0174	M	TL, CL
Enteropeptidase/Enterokinase Activity Assay (F)	MA-0270	M	PP
Ethanol Assay (C/F)	MA-0131	M	O
<b>F</b>			
Factor VIIIa Activity Assay (F)	MA-0208	M	PP, S, P
FAD Assay (C/F)	MA-0271	M	S, CL, TL
Free Fatty Acid Assay (C/F)	MA-0111	M	TL, CL
Ferric Reducing Antioxidant Power (FRAP) Assay (C)	MA-0272	M	S, O
Formate Assay (C)	MA-0274	M	TL, CL
Fructose Assay (F)	MA-0275	M	TL, CL
Fructose-6-Phosphate Assay (F)	MA-0277	M	TL, CL, O
$\alpha$ -L-Fucosidase Assay (C)	MA-0278	M	S, P, O
Fumarase Activity Assay (C)	MA-0279	M	TL, CL, O
Fumarate Assay (C)	MA-0233	M	TL, CL
<b>G</b>			
Galactose and Lactose Assay (C/F)	MA-0280	M	O
Galactose Assay (C/F)	MA-0281	M	O
Alpha-Galactosidase Activity Assay (F)	MA-0142	M	TI, CL, S, P, O
Beta Galactosidase Activity Assay (F)	MA-0282	M	TL, CL, O
Beta-Galactosidase Staining Kit (C)	COS-0104	CM	CB
Gamma Glutamyl Transferase Activity Assay (C)	MA-0283	M	TL, CL, S
Gamma Glutamyl Transferase Activity Assay (F)	MA-0284	M	TL, CL, S
GAPDH Activity Assay (C)	MA-0153	M	TL, CL
Genomic DNA (Mammalian) Isolation Kit	MA-0285	PCR/SB	TL, CL
Glucose / Sucrose Assay (C/F)	MA-0180	M	S, P, O
Glucose Assay (C/F)	MA-0122	M	S, P, U, O
Glucose Dehydrogenase Activity Assay (C)	MA-0286	M	TL, CL, S
Glucose Oxidase Activity Assay (C/F)	MA-0287	M	CL, S
Glucose-1-Phosphate Assay (C)	MA-0172	M	TL, CL, O
Glucose-6-Phosphate Assay (C)	MA-0288	M	TL, CL, O
Glucose-6-Phosphate Assay (F)	MA-0289	M	TL, CL, O

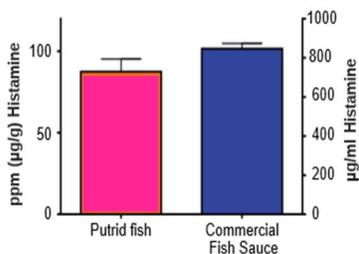




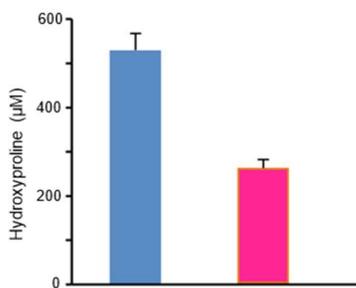
Kit Name (A-Z)	Cat. No.	Platform	Sample Type
Glucose-6-Phosphate Dehydrogenase Activity Assay (F)	MA-0224	M	TL, CL, O
Glucose-6-Phosphate Dehydrogenase Activity Assay (C)	MA-0291	M	TL, CL, O
β-Glucuronidase Activity Assay Kit (F)	MA-0290	M	TL, PP
Glutamate Assay (C)	MA-0133	M	TL, CL, S
Glutamate Dehydrogenase Activity Assay (C)	MA-0293	M	TL, CL, S
Glutamine Assay (C)	MA-0164	M	U, TL, CL
Cell-Based Glutathione Detection Kit (F)	MA-0294	CB	CB
Glutathione Assay Kit (GSH/GSSG/Total) (F)	MA-0227	M	TL, CL, S
Glutathione Assay (DTNB) (C)	MA-0295	M	CL, TL, P, O
Total Glutathione Assay (Monochlorobimane) (F)	MA-0201	M	CL, TL
Total Glutathione Assay (GST) (F)	MA-0296	M	CL, TL
Glutathione Peroxidase Activity Assay (C)	MA-0137	M	CL, TL
Glutathione Reductase Activity Assay (C)	MA-0297	M	CL, TL
Glycerol Assay(C/F)	MA-0298	M	S, P, TL, CL, O
Glycerol-3-Phosphate Assay (C)	MA-0299	M	CL, TL
Glycerol-3-Phosphate DH Activity Assay (C)	MA-0300	M	CL, TL
Glycogen Assay Kit (C)	MA-0136	M	CL, TL
Glycogen Assay (C/F)	MA-0112	M	CL, TL
GST Activity Assay (C)	MA-0301	M	CL, TL, P, O
GST Activity Assay (F)	MA-0302	M	CL, TL, P, O
<b>H</b>			
HDL and LDL/VLDL Cholesterol Assay (C/F)	MA-0124	M	CL
Heme Assay (C)	MA-0190	M	O
Hemoglobin Assay (C)	MA-0193	M	S, P, O
Hexokinase Assay (C)	MA-0204	M	S, TL, CL
Histamine Assay (C)	MA-0303	M	O
Hydrogen Peroxide Assay (C/F)	MA-0145	M	CL, S, P, U, O
β-Hydroxybutyrate Assay (C)	MA-0132	M	S, O
β-Hydroxybutyrate Assay (F)	MA-0304	M	S, P, U, O
Hydroxyproline Assay (C) (Perchlorate-Free) (C)	MA-0101	M	TL, S, U
<b>I</b>			
Inosine Assay (F)	MA-0173	M	TL, CL
Inulin Assay (F)	MA-0197	M	O
Invertase Activity Assay (C/F)	MA-0305	M	O, PP
Iodide Assay	MA-0228	M	CL, S, P, U, O
Iron Assay (C)	MA-0103	M	CL, TL O
Isocitrate Assay (C)	MA-0306	M	CL, TL O
Isocitrate Dehydrogenase Activity Assay (C)	MA-0307	M	CL, TL, S
Isopropanol Dehydrogenase Activity Assay (C)	MA-0308	M	TL, O
<b>J-K</b>			
Plasma Kallikrein Activity Assay (C)	MA-0309	M	P, PP
<b>L</b>			
Lactate Assay II (C)	MA-0123	M	CL, S
Lactate Assay (C/F)	MA-0115	M	CL, O
Lactate Dehydrogenase Activity Assay (C)	MA-0117	M	TL, CL

Kit Name (A-Z)	Cat. No.	Platform	Sample Type
Lactate Dehydrogenase Based Cell Cytotoxicity (C)	CPT-0101	M	CB
D-Lactate Assay (C)	MA-0148	M	S, P, CL, TL
Lactose Assay (C/F)	MA-0232	M	O
Leucine Aminopeptidase Activity Assay (F)	MA-0310	M	CL, TL
Lipase Activity Assay (C/F)	MA-0149	M	TL, CL, S
Lipase Activity Assay Kit II (C)	MA-0311	M	TL, CL, S
Lipase Activity Assay Kit III (F)	MA-0312	M	TL, CL, S
Lipid (Oil Red O) Staining Kit (C)	COS-0101	CM	CB
Lipid Extraction Kit (Chloroform Free)	PI-0101	CM	S, P, CL, TL
Lipid Peroxidation (MDA) Assay (C/F)	MA-0102	M	TL, CL, P, S
Lipolysis (3T3-L1) Assay (C/F)	MA-0189	M	CL
Live-Dead Cell Staining Kit (F)	COS-0103	CM	CB
Lysosome Purification Kit	PI-0108	WB/EIA	CL, TL
Lysosomal Cytotoxicity (Dual Staining - Cell-Based) (F)	COS-0106	CB	CB
Lysyl Oxidase Activity Assay (F)	MA-0313	M	PP, O
<b>M</b>			
Magnesium Assay (C)	MA-0314	M	TL, CL, S, U
Malate Assay (C)	MA-0315	M	TL, O
Malate Dehydrogenase Activity Assay (C)	MA-0316	M	TL, CL
Maltose/Glucose Assay (C/F)	MA-0317	M	S, P, O
Maltose Assay (C/F)	MA-0318	M	S, P, O
Mammalian Cell Extraction Kit	PI-0113	WB/M	TL, CL
Mannitol Assay (C)	MA-0319	M	U, S, P, O
Membrane Protein Extraction Kit	PI-0104	NA	CL, TL
Methanol Assay (C)	MA-0206	M	S, P, U, O
Microsome Isolation Kit	PI-0114	WB	TL, CL
Mitochondria Isolation Kit for Tissue & Cultured Cells	PI-0115	NA	TL, CL
Mitochondria/Cytosol Fractionation Kit (100 samples)	PI-0116	WB/EIA	TL, CL
Mitochondria/Cytosol Fractionation Kit (25 samples)	PI-0116	WB/EIA	TL, CL
Mitochondrial Complex I Activity Assay (C)	MA-0320	M	O
Mitochondrial Complex III Activity Assay (C)	MA-0321	M	O
Mitochondrial DNA Isolation Kit	PI-0105	PCR/SB	O
MTS Cell Proliferation Assay (C) (2500 wells)	CPT-0104	CB	CB
MTT Cell Proliferation Assay (C) (1000 wells)	CPT-0103	CB	CB
Myeloperoxidase (MPO) Activity Assay (C)	MA-0135	M	TL, CL, O
Myeloperoxidase (MPO) Peroxidation Activity Assay (C/F)	MA-0322	M	TL, CL, O
<b>N</b>			
NAD/NADH Assay (C)	MA-0114	M	TL, CL, S, U
NADH Assay (F)	MA-0323	M	TL, CL, O
NADP/NADPH Assay (C)	MA-0126	M	TL, CL
NADPH Assay (F)	MA-0324	M	TL, CL
Neuraminidase Activity Assay (F)	MA-0325	M	TL, CL, S
Neutral Red Cell Cytotoxicity Assay Kit (C)	CPT-0107	CB	CB
Neutrophil Elastase Activity Assay (F)	MA-0156	M	PP, P, O

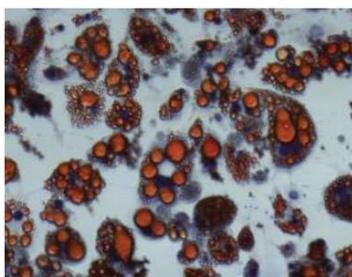




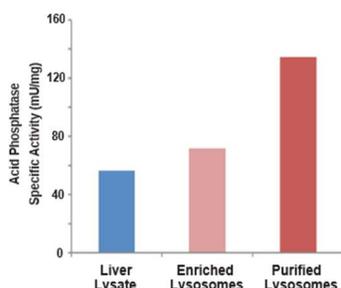
MA-0303 Histamine (fish samples)



MA-0101 Hydroxyproline



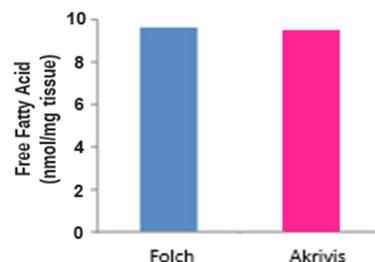
COS-0101 Oil Red O Lipid Stain (3T3 cells, differentiated)



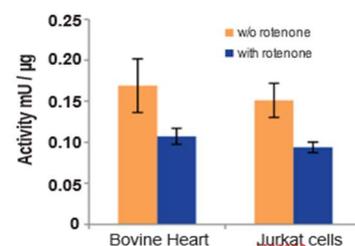
PI-0108: Lysosome Purification Marker: rat liver Acid Phosphatase

Kit Name (A-Z)	Cat. No.	Platform	Sample Type
Nickel Assay (C)	MA-0170	M	O
Nitric Oxide Assay (C)	MA-0205	M	S, U, CL
Nitric Oxide Assay (F)	MA-0326	M	S, U, CL
Nitric Oxide Synthase Activity Assay (C)	MA-0327	M	PP, TL
Nuclear/Cytosol Fractionation Kit	PI-0107	WB/EIA	CL
<b>O</b>			
Oxalate Assay (C)	MA-0222	M	TL, O
Oxalate Decarboxylase Activity Assay (C)	MA-0328	M	O
Oxaloacetate Assay (C/F)	MA-0329	M	TL, CL
<b>P</b>			
p300 Inhibitor Screening Assay Kit (F)	MA-0146	M	NA
PAH (p-Aminohippuric Acid) Assay (C)	MA-0230	M	P, U
Paraoxonase 1 Activity Assay (F)	MA-0331	M	P, S, PP
PEP Assay (C/F)	MA-0332	M	TL, O
Peroxidase Activity Assay (C/F)	MA-0333	M	CL, S, P, U, O
Phenylalanine Assay (F)	MA-0147	M	TL, CL, S, O
Phosphate Assay (C)	MA-0105	M	S, P
Phosphatidylcholine Assay (C/F)	MA-0334	M	S, P
Phosphodiesterase Activity Assay (F)	MA-0160	M	CL, O
Phosphoenolpyruvate Carboxylase Activity Assay (C)	MA-0335	M	CL, O
Phosphofructokinase (PFK) Activity Assay (C)	MA-0165	M	TL, CL
Phosphoglucomutase Assay (C)	MA-0336	M	TL, CL
6-Phosphogluconate Dehydrogenase Activity Assay (C)	MA-0337	M	TL, CL
6-Phosphogluconic Acid Assay (C)	MA-0338	M	TL, CL
Phosphoglucose Isomerase Activity Assay (C)	MA-0339	M	TL, CL
2-Phosphoglycerate Assay (C/F)	MA-0340	M	TL, CL
Phosphoglycerate Mutase Activity Assay (C/F)	MA-0209	M	TL, CL
Phospholipid Assay (C/F)	MA-0217	M	TL, CL, O
Phospholipase A2 Activity Assay (F)	MA-0341	M	TL, CL, PP
Phospholipase D Activity Assay (C)	MA-0342	M	TL, CL
Plasma Membrane Isolation Kit	PI-0118	WB	CB
Plasmin Activity Assay (F)	MA-0177	M	P
Total Polyamine Assay (F)	MA-0214	M	TI, O
Prostate Specific Antigen (PSA) Activity Assay (F)	MA-0343	M	PP, O
Proteasome Activity Assay (F)	MA-0344	M	CL
Protein Carbonyl Content Assay (C)	MA-0150	M	O
Protein Quantitation Kit (BCA)	MA-0292	NA	O
Purine Nucleoside Phosphorylase Activity Assay (C)	MA-0223	M	PP, CL, TL
Purine Nucleoside Phosphorylase Activity Assay (F)	MA-0225	M	PP, CL, TL
Pyruvate Assay (C/F)	MA-0129	M	TL, CL, S, O
Pyruvate Carboxylase Activity Assay (C)	MA-0216	M	TL, CL
Pyruvate Dehydrogenase Activity Assay (C)	MA-0166	M	TL, CL, O
Pyruvate Kinase Activity Assay (C/F)	MA-0107	M	S, TL, CL
<b>Q-R-S</b>			
Sarcosine Assay (C/F)	MA-0207	M	O
Senescence Detection Kit (C)	COS-0102	CM	CB

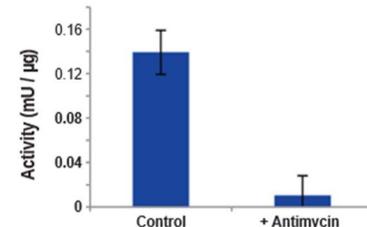
Kit Name (A-Z)	Cat. No.	Platform	Sample Type
Sialic Acid (NANA) Assay (C/F)	MA-0346	M	O
Sphingomyelin Assay (C/F)	MA-0347	M	S, P, TL, CL
D-Sorbitol Assay (C)	MA-0348	M	O
Sphingomyelinase Activity Assay (C/F)	MA-0349	M	TL, CL
Starch Assay (C/F)	MA-0350	M	O
Streptokinase Activity Assay (C)	MA-0368	M	PP, O
Succinate Assay (C)	MA-0134	M	TL, CL, O
Succinyl-CoA Synthetase Activity Assay (C)	MA-0351	M	TL, CL
Sucrose/Glucose Assay (C/F)	MA-0180	M	O
Sulfatase Activity Assay (C)	MA-0163	M	TL, CL, PP
Total Sulfite Assay (C)	MA-0184	M	O
Superoxide Dismutase Activity Assay (C)	MA-0108	M	TL,CL, O
<b>T</b>			
Thrombin Activity Assay (F)	MA-0352	M	S, P, CL, TL, O
Tissue Plasminogen Activator Activity Assay (C)	MA-0370	M	S, P, CB, TL
TMRE Mitochondrial Membrane Potential Assay (F)	MA-0353	M	CL, O
Total Antioxidant Capacity (TAC) Assay (C)	MA-0106	M	S, U, CL
Triglyceride Assay (C/F)	MA-0110	M	TL, CL, S, P
Triglyceride Assay (F)	MA-0354	M	TL, CL, S, P, O
Triose Phosphate Isomerase Activity Assay (C)	MA-0355	M	TL, CL, S, P
Trypsin Activity Assay (C)	MA-0128	M	TL, CL
Tryptophan Assay (F)	MA-0356	M	S, U
Tyrosinase Inhibitor Screening Kit (C)	MA-0178	M	NA
Tyrosine Assay (C)	MA-0229	M	S, P, U, O
<b>U</b>			
UCH-L1 Deubiquitinase Inhibitor Screening Kit (F)	MA-0358	M	NA
UCH-L3 Deubiquitinase Inhibitor Screening Kit (F)	MA-0359	M	NA
UGT Activity Assay / Ligand Screening Kit (F)	MA-0360	M	TL, PP, CL
Urea Assay (C)	MA-0118	M	TL, CL, S, P, U
Urease Activity Assay (C)	MA-0361	M	PP, O
Uric Acid Assay (C/F)	MA-0151	M	S
Uricase Activity Assay Kit (F)	MA-0362	M	TL, PP, O
Urokinase Activity Assay (F)	MA-0363	M	CL, S
<b>V-Z</b>			
PEG Virus Precipitation Kit	PI-0117	M/WB	CL
Xanthine Oxidase Activity Assay (C/F)	MA-0364	M	S, CL, TL
Xanthine/Hypoxanthine Assay (C/F)	MA-0175	M	S, P, CL, TL,
$\beta$ -Xylosidase Activity Assay Kit (F)	MA-0365	M	PP, O
Yeast Mitochondria Isolation Kit	PI-0119	WB/M	O
Yeast Nuclei Isolation Kit	K289-50	WB/M	O
Zinc Assay (C)	MA-0367	M	S, P, U



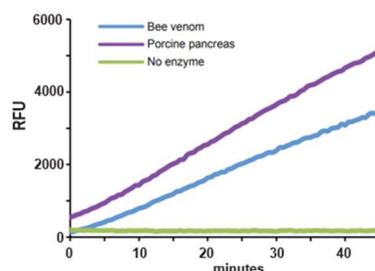
**PI-0101 Lipid Extraction Fatty Acid quantification (comparison with Folch)**



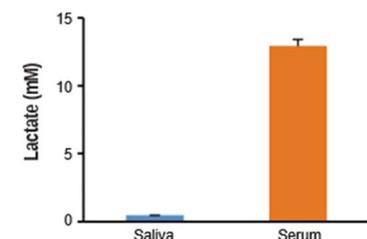
**MA-0320 Mitochondrial Complex I Control vs. Rotenone-treated**



**MA-0321 Mitochondrial Complex III (bovine heart mitochondria)**



**MA-0341 Phospholipase A2 activity (bee venom, porcine pancreas)**



**MA-0115 Lactate Assay**

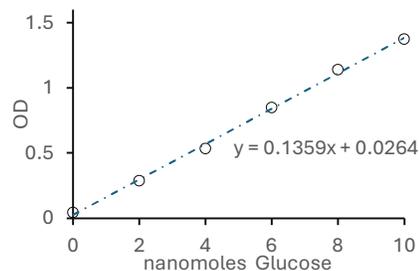
## 是什么让我们与众不同？

答案就在我们的名字里。Akrivis 是希腊词 ακριβής 的英文形式，意为“精确”。无论是在大处还是小节，我们都努力让我们的试剂盒比您之前使用的更好。我们相信，试剂盒应该易于使用，并且至少与您正在处理的数据一样精确。如果在对照组和实验样本之间观察到的重要差异仅为 10%~30%，而检测方法的变异性却高达 50% 或更多，那么这种检测方法是毫无帮助的。

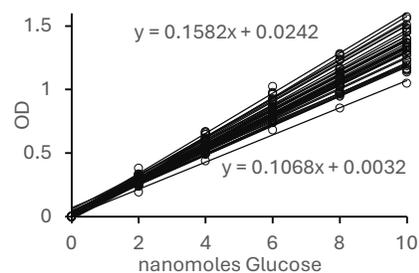
我们已经从事这一行业近 20 年。在这段时间里，我们积累了大量关于不同检测方法的数据，了解了它们的工作原理以及如何让它们表现得更好。我们还学会了如何从中提取最有意义的信息。我们创立 AkrivisBio 的原因之一就是观察到商业试剂盒的批次间差异。这些试剂盒被用于学术和企业研究，而您的数据质量仅取决于用于表征它的标尺质量。我们积累了多年的数据，涵盖了许多类型检测试剂盒的多个批次，而您期望的一致性根本就不存在。我们将在下面举几个例子，以便让您清楚地了解我们所说的：

这些数据来自一家主要检测试剂盒制造商的不同批次的多种检测，其产品可以在许多不同的品牌下找到。

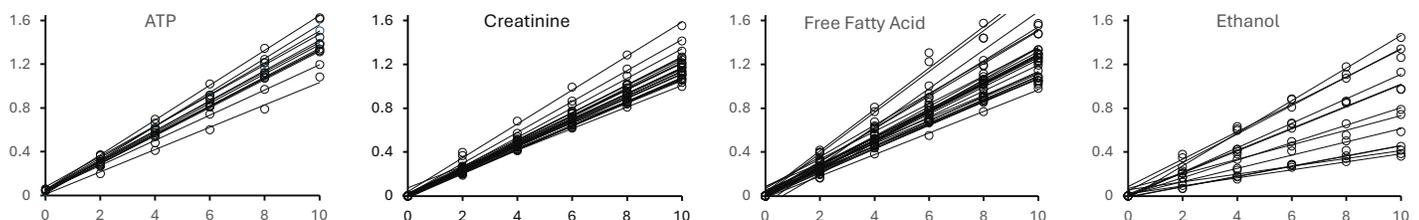
让我们从一个非常简单的葡萄糖检测开始。它只有两种酶：葡萄糖氧化酶和过氧化物酶。在葡萄糖存在的情况下，葡萄糖氧化酶会形成过氧化氢，过氧化氢随后被过氧化物酶用于氧化多种不同底物中的一种。在大多数商业试剂盒中，使用 ADHP 是因为它非常灵敏。那么，标准曲线看起来是什么样的呢？在大多数情况下，像这样：



人们可能会认为，鉴于这种检测的简单性，在几年内多个批次的结果应该基本相同。下面的图表是大约 5 年内 35 个单独批次的葡萄糖检测试剂盒的样本，这些试剂盒通过了质量控制测试标准，并通过许多不同的公司销售：



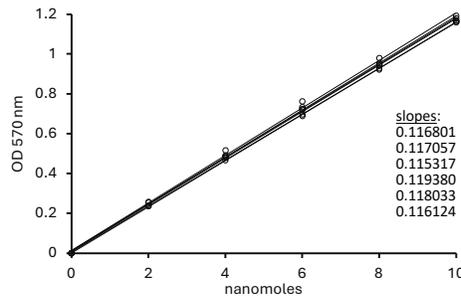
这些标准曲线之间存在显著的变异性，斜率在大约 0.107 到 0.158 之间变化，最高值和最低值之间相差近 50%。很难想象一个研究人员在研究一段时间内他的实验动物的血糖浓度时，会对任何未显示出至少 50% 数据变化的读数有信心。您会在所有检测中看到同样的趋势，这里还有几个更多的例子：



作为一家新公司，面临的一个问题是我们比那些已经建立起来的公司缺乏可信度。我们没有多年的数据来展示每种检测的多个批次的可重复性。然而，还有另一种方法可以证明这一点。一般来说，有一些检测是基于相同原理的。其中一组是基于一类酶——氧化酶的作用，它们在不同的底物上起作用，过程中产生过氧化氢，随后被过氧化物酶利用，将多种过氧化物酶底物中的一种转化为具有增强颜色或荧光的氧化产物。我们使用的是 **ADHP (10-乙酰基-3,7-二羟基苯并恶嗪)**，当它转化为荧光素时，会产生强烈的颜色和荧光。

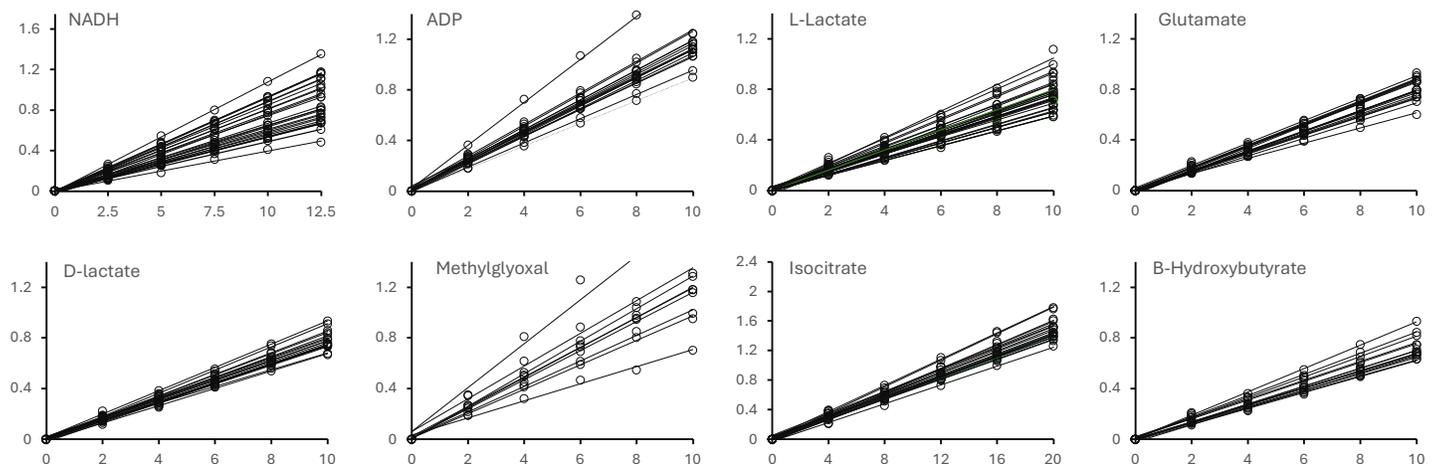
重要的一点是，所有氧化酶的化学计量比是相同的。一个底物产生一个过氧化氢，产生一个荧光素。无论使用哪种检测方法，只要检测条件基本相同，您就会得到相同的标准曲线，无论底物是葡萄糖、胆固醇、乙醇还是其他数十种甚至数百种具有相关氧化酶的生化物质。这意味着我们可以将不同的检测结果叠加在一起，以展示其可重复性。

以下是一张几张标准曲线的图表，这些曲线分别针对几种不同的分子，即葡萄糖、ATP、肌酐、乙醇、游离脂肪酸和过氧化氢本身。

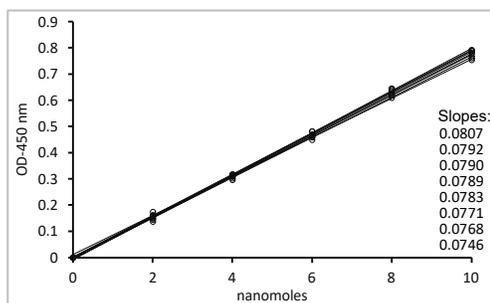


最高标准曲线和最低标准曲线之间的差异仅为 **3.5%**，显然，结果更加一致，这使您对实验数据更有信心。有些底物在标准曲线中不会产生相同的斜率。尿酸就是其中之一，由于其抗氧化特性中和了一些产生的过氧化氢，导致斜率约为此处看到的 **25%**。黄嘌呤也是如此。它通过两个步骤被氧化，首先转化为次黄嘌呤，然后转化为尿酸，因此标准曲线的斜率是此处显示的两倍。

另一种常见的检测机制是使用水溶性四氮杂卓 (WST)。我们更喜欢 WST-8，但其他人也使用类似的化学物质来检测可以通过脱氢酶作用被氧化的生化物质，这些脱氢酶形成 NADH 或 NADPH。有许多化学物质容易受到脱氢酶的作用。以下是不同检测的多个批次的标准曲线集：



同样，与基于ADHP的试剂盒情况一样，我们也没有多个批次的基于WST-8的试剂盒。与基于ADHP的试剂盒情况相同的是，所有这些试剂盒中化学物质的化学计量比都是一样的，所以所有这些检测应该得出相同的结果。当我们针对L-乳酸、乙酸、D-乳酸、羟基丁酸、谷氨酸、琥珀酸、支链氨基酸和NADH进行检测时看到：



与基于ADHP的检测一样，我们可以看到，当操作得当时，基于WST-8的检测都显示出相同的分子灵敏度，这完全是合理的。这是AkrivisBio与其他公司试剂盒之间的主要区别之一。

## 糖酵解途径

## 三羧酸循环/中间代谢

## 氨基酸

## 脂质

## 辅因子和辅基

## 碳水化合物

## 核酸



**AmyJet Scientific**  
艾美捷科技

- **代谢检测**

- **细胞增殖和毒性检测**

- **细胞和细胞器染色试剂盒**

- **样本制备和分离试剂盒**

