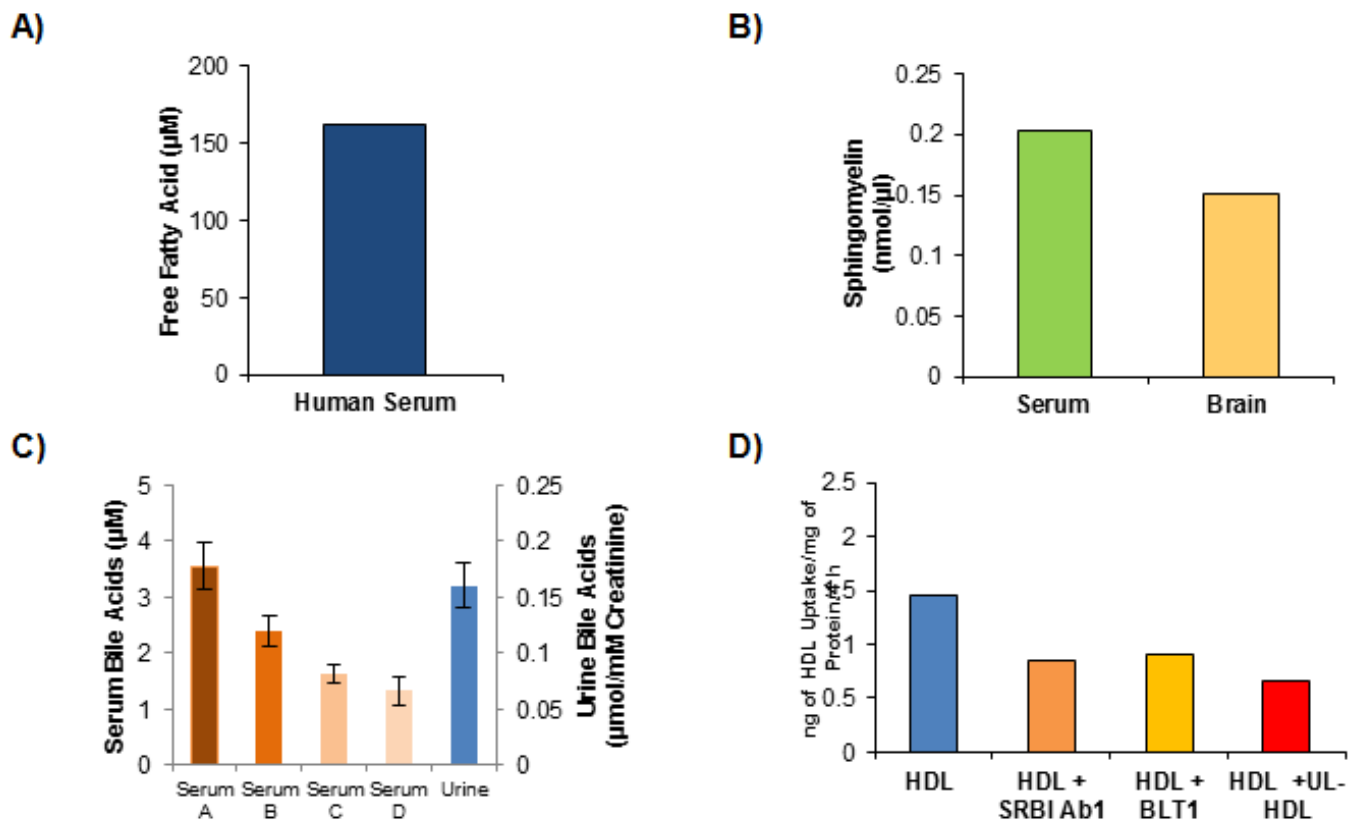


Lipids Assay Kits

Lipids are often referred as the collection of "fat" molecules that can be endogenous or exogenous. They have essential functions and roles in humans from energy storage to cell signaling, to name a few. BioVision is proud to offer a complete portfolio to study lipid-related research. Our assay kits can be used to elucidate processes governing cellular biology, and cardiovascular-disease research.

Key Features:

- **Non-radioactive**, homogeneous assays
- **Specific** assays
- **Versatile**: spectrophotometry, fluorescence microscopy, cell-based assays
- **Convenient**: minimal sample preparation; fast protocols (1-2 hours)
- **Cost effective**: 50/100 assays; **High Throughput Screening compatible**
- **Validated**: using mammalian tissues, cells, biological fluids



Figures. **A)** Quantitation of free fatty acid in pooled human serum (10 µl) and rat liver lysate (50 µg) using K612-100. **B)** Cardiolipin content per mg protein in Jurkat cell lysate, Jurkat cell mitochondria, Bovine heart mitochondria and Yeast Mitochondria (*S. cerevisiae*) were determined using K744-100. **C)** Fluorescently-labeled HDL uptake in HepG2 (hepatocytes) cells using K586-100: Cells were starved for 4 hrs and incubated with Fluorescently-labeled HDL (10 µg) for 4 hrs. Fluorescently-labeled HDL (HDL) uptake was inhibited by SR-BI (HDL receptor) antibody (HDL + SRB1 Ab1), BLT1 (SR-BI Inhibitor; HDL + BLT1) and outcompeted by Unlabeled-HDL (HDL+ UL-HDL [20 µg]). **D)** Estimation of Bile Acids concentration in human serum and urine (30 µl of each; undiluted samples).

The simplest, yet sensitive series of assays in the market!!!

155 S. Milpitas Blvd, Milpitas, CA 95035

T: 408-493-1800 F: 408-493-1801

Toll Free: 800-891-9699 (US Only)

BioVision
BioVision Incorporated



Lipid Metabolite Assay Kits

Target	Cat. No.	Detection Limit	Sample Type
Acetate Assay Kit (C)	K658	-	Serum, plasma, food
Acetoacetate Assay Kit (C)	K650	10 nmol	Urine
Acid Sphingomyelinase Assay Kit II (C)	K192	-	Tissue, cells, serum
Acyl-CoA Synthetase Fluorometric Assay Kit	K184	-	Animal tissues, cells, etc
Aldehyde Dehydrogenase 2 Inhibitor Screening Kit (F)	K2011	-	-
Aldehyde Dehydrogenase Activity Assay Kit (C)	K731	-	-
PicoProbe™ Aldehyde Dehydrogenase Activity Assay Kit (F)	K741	-	-
Alkaline Sphingomyelinase Activity Assay Kit (C)	K987	-	Animal tissue
cAMP Phosphodiesterase Activity Assay Kit (F)	K2013	0.1 μU	Animal tissues, cells, etc
Carboxylesterase Activity Assay Kit (F)	K2014	6.6 μU	Mammalian Tissues, etc
Cardiolipin Assay Kit (F)	K944	-	Cell Lysate, Isolated Mitochondria
CETP Activity Assay Kit II (F)	K595	-	Recombinant protein
CETP Inhibitor Screening Kit II (F)	K594	-	-
EZScreen™ Total Cholesterol & Cholesteryl Ester Assay Kit (384-Well) (C)	K957	125 ng	Serum
Total Cholesterol and Cholesteryl Ester Assay Kit (C/F)	K603	50 ng	Serum, tissue
Total Cholesterol and Cholesteryl Ester Assay Kit II (C)	K623	500 ng	Serum, tissue
Cholesterol Efflux Assay Kit (CB) (F)	K582	-	Cells
Choline Oxidase Activity Assay Kit (F)	K2052	-	Purified protein, Bacterial cell lysates
3T3-L1 Differentiation Kit	K579	-	Primary adipocytes, cells
PicoProbe™ Dihydroxyacetone Phosphate Assay Kit (F)	K673	-	Animal tissue, cell culture
EZScreen™ Free Fatty Acid Assay Kit (384-well) (C)	K956	-	Serum, plasma, body fluids
Free Fatty Acid Quantification Kit (C/F)	K612	100 pmol	Serum, tissue
Free Glycerol Assay Kit (C/F)	K630	100 pmol	Serum, tissue
PicoProbe™ Free Glycerol Assay Kit (F)	K643	25 pmol	Serum, tissue
Free Glycerol Assay Kit II (C)	K634	-	Serum, plasma, urine
EZClick™ Global Phospholipid Synthesis Assay Kit (FACS/Microscopy), Red Fluorescence	K717	-	Adherent cell cultures
Glucosylceramidase Activity Assay Kit (F)	K2003	0.2 μU	Tissue Homogenates, etc
Glycerol Assay Kit (CB)	K977	100 pmol	Cells
Glycerol-3-Phosphate (G3P) Assay Kit (C)	K641	-	Animal tissue, cell culture
PicoProbe™ Glycerol-3-Phosphate Assay Kit (F)	K196	-	Plasma, serum, tissue
Glycerol-3-Phosphate Dehydrogenase Activity Assay Kit (C)	K640	-	Animal tissue, cell culture
Glycerophosphorylcholine Assay Kit (C/F)	K433	-	Tissue, bio fluids
HDL and LDL/VLDL Quantification Kit (C/F)	K613	500 μg	Serum
HDL Uptake Assay Kit (F)	K586	10 ng	Serum
Hepatic Steatosis Assay Kit	K584	-	Liver cells
HMG-CoA Reductase Activity/Inhibitor Screening Kit (C)	K588	-	Recombinant enzyme
Hydroxy Acid Oxidase Activity Assay Kit (F)	K2010	1 μU	Animal tissue lysate, etc
β-Hydroxybutyrate (β-HB) Assay Kit (C)	K632	2 nmol	Serum, Urine
PicoProbe™ β-Hydroxybutyrate Assay Kit (F)	K651	50 pmol	Serum, Urine
Lipase Activity Assay Kit III (F)	K724	-	-
Lipid Peroxidation Assay Kit (C)	K722	-	-

*C: Colorimetric; F: Fluorometric; ** Suitable for Fluorescence Microscopy; CB: Cell-Based

Lipid Metabolite Assay Kits

Target	Cat. No.	Detection Limit	Sample Type
Lipid (Oil Red O) staining Kit	K580	-	Cell culture
Lipid Extraction Kit (Chloroform Free)	K216	-	Serum, plasma, tissue
Lipid Peroxidation Assay Kit (C)	K454	3 nmol	Serum, Plasma, Tissues
Lipolysis (3T3-L1) Assay Kit (C)	K577	-	Primary adipocytes, etc
PicoProbe™ Lipolysis (3T3-L1) Assay Kit (F)	K578	-	Primary adipocytes, etc
Lipolysis (Adipocyte) Assay Kit (C/F)	K581	-	Animal tissues
Lipoprotein Lipase Activity Assay Kit (F)	K721	-	Pure, plasma, tissue
EZClick™ Myristoylated Protein Assay Kit (FACS/Microscopy), Green Fluorescence	K497	-	Suspension or adherent cells
EZClick™ Myristoylated Protein Assay Kit, Red Fluorescence	K177	-	Suspension or adherent cells
PAF Acetylhydrolase (PAF-AH) Inhibitor Screening Kit (C)	K766	-	
PAF Acetylhydrolase Activity Assay Kit (C)	K765	-	Animal tissue, serum, etc
EZClick™ Palmitoylated Protein Assay Kit (FACS/Microscopy), Green Fluorescence	K452	-	Suspension or adherent cells
EZClick™ Palmitoylated Protein Assay Kit (FACS/Microscopy), Red Fluorescence	K416	-	Suspension or adherent cells
PicoProbe™ 15-PGDH Activity Assay Kit (F)	K562	-	Animal tissue, cells
Phosphatidylcholine Assay Kit (C/F)	K576	-	-
Phospholipase A2 Activity Assay Kit (F)	K400	-	Venoms, tissue, cells
Phospholipase C Activity Assay Kit (C)	K2016	0.1 mU	Organs and tissues
Phospholipase D (PLD) Activity Assay Kit (C)	K725	-	Animal tissue, cell culture
PLTP Activity Assay Kit II (F)	K593	-	Plasma, serum
PLTP Inhibitor Drug Screening Kit (F)	K605	-	-
Preadipocyte Isolation Kit	K583	-	Animal tissues
Sialyltransferase Activity Assay Kit (F)	K2048	-	Tissue or cell lysate, Recombinant enzyme, Purified protein
Sphingomyelin Quantification Assay Kit (C)	K600	500 pmol	Serum, tissue
Sphingomyelinase Activity Assay Kit (C)	K599	-	Animal tissue, cell culture
Sphingomyelinase Activity Assay Kit (F)	K574	-	Animal tissue, cells
EZClick™ Stearoylated Protein Assay Kit (FACS/Microscopy), Green Fluorescence	K453	-	Suspension or adherent cells
EZClick™ Stearoylated Protein Assay Kit (FACS/Microscopy), Red Fluorescence	K418	-	Suspension or adherent cells
PicoProbe™ Triglyceride (TG) Assay Kit (F)	K614	20 pmol	Serum, tissue, saliva
EZScreen™ Triglyceride Quantification Assay Kit (384-well) (C)	K952		Animal tissue, cell culture
Triglyceride Quantification Kit (C/F)	K622	100 pmol	Serum

*C: Colorimetric; F: Fluorometric; ** Suitable for Fluorescence Microscopy; CB: Cell-Based

Visit www.BioVision.com for a comprehensive overview on other Metabolism, Obesity & Diabetes Research Products!