

Isolation and Analysis of Plasma Lipoproteins by Ultracentrifugation

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Materials

Name	Company	Catalog Number	Comments
22-gauge needle	Terumo	NN-2232S	For blood collection
96-well microplate	greiner bio-one	655101	For lipids measurment
Anti-apolipoprotein A-I antibody	LifeSpan BioSciences	LS-C314186	For Western blotng, use 1:1,000
Anti-apolipoprotein B antibody	ROCKLAND	600-101-111	For Western blotng, use 1:1,000
Anti-apolipoprotein E antibody	Merck Millipore	AB947	For Western blotng, use 1:1,000
CBB staining kit	FUJIFILM Wako Pure Chemical	299-50101	For apolipoprotein analysis
Centrifuge	HITACHI		himac CF15RN
Closure	Spectrum	132736	For lipoprotein dialysis
Dialysis tubing	FUJIFILM Wako Pure Chemical	043-30921	For lipoprotein dialysis, MWCO 14,000
Dry heat block	Major Science	MD-01N	For SDS-PAGE sample preparation
ECL Western blotting detection reagents	GE Healthcare	RPN2209	For Western blotting
Electrophoresis Chamber	BIO-RAD		Mini-PROTEAN Tetra Cell
Ethylenediamine-N,N,N',N'-tetraacetic acid (EDTA) disodium salt dihydrate	FUJIFILM Wako Pure Chemical	345-01865	For anticoagulant (0.5 M), for dialysis (1 mM)
Filter paper	ADVANTEC	590	For Western blotting
Fixed angle ultracentrifuge rotor	BECKMAN COULTER	357656	TLA-120.2
Fixing solution			For SDS-PAGE (50% Methanol/ 10% Acetic acid)
Immun-Blot PVDF membrane	BIO-RAD	1620177	For Western blotting
Lumino image analyzer	GE Healthcare		For Western blotting, ImageQuant LAS 400
Magnetic stirrer	ADVANTEC	SR-304	For lipoprotein dialysis
Microplate reader iMARK	BIO-RAD		For lipids measurment
Microtube	INA-OPTIKA	SC-0150	
Orbital agitator USBDbio	Stovall Life Science		
Peroxidase conjugated anti goat IgG antibody	Jackson ImmunoResearch	705-035-003	For Western blotting, use 1:2,000

Peroxidase conjugated anti mouse IgG antibody	Jackson ImmunoResearch	715-035-150	For Western blotting, use 1:2,000
Phospholipids assay kit	FUJIFILM Wako Pure Chemical	433-36201	For lipids measurment
Polycarbonate ultracentrifuge Tubes	BECKMAN COULTER	343778	
Potassium Bromide	FUJIFILM Wako Pure Chemical	168-03475	For density solution
Power Supply	BIO-RAD		For SDD-PAGE and Western blotting, PowerPac 300, PowerPac HC
Protein standards Precidion Plus Protein Dual Xtra	BIO-RAD	161-0377	For SDS-PAGE and Western blotting
Rabbit restrainer	Natsume Seisakusho	KN-318	For blood collection
Rotor	HITACHI		T15A43
SDS-PAGE running buffer			25 mM Tris/ 192 mM Glycine/ 0.1% SDS
SDS-PAGE sample buffer (2x)			0.1M Tris-HCl (pH 6.8)/ 4% SDS/ 20% glycerol/ 0.01% BPB/12% 2-merpactoethanol
SDS-polyacrylamide gel			4-20% gradient polyacrylamide gel
Skim milk powder	FUJIFILM Wako Pure Chemical	190-12865	For Western blotting blocking buffer (5% skim milk/ 0.1% Tween 20/ PBS)
Total cholesterol assay kit	FUJIFILM Wako Pure Chemical	439-17501	For lipids measurment
Triglycerides assay kit	FUJIFILM Wako Pure Chemical	432-40201	For lipids measurment
Tube slicer for thick-walled tube	BECKMAN COULTER	347960	For lipoprotein isolation
Tween 20	SIGMA-ALDRICH	P1379	For Western blotting washing buffer (0.1% Tween 20/ PBS)
Ultracentrifuge	BECKMAN COULTER	A95761	Optima MAX-TL
Western blotting wet transfer system	BIO-RAD		Mini Trans-Blot Cell