

Materials List for:

Isolation of Primary Mouse Hepatocytes for Nascent Protein Synthesis Analysis by Non-radioactive L-azidohomoalanine Labeling Method

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Materials

Name	Company	Catalog Number	Comments
HEPES buffer	Fisher Scientific	BP310-500	
D-glucose	Fisher Scientific	D16-500	
Ethylene glycol-bis(β-aminoethyl ether)-tetraacetic acid	AmericanBio	AB00505-00025	
Antibiotic-Antimycotic (100x)	Gibco	15240-062	
HBSS (10x) no calcium, magnesium, phenol red	Gibco	14185-052	
Calcium Chloride Dihydrate (CaCl ₂ ·2H ₂ O)	Fisher Scientific	C79-500	
Density gradient buffer	GE Healthcare	17-0891-02	
DMEM (Dulbecco's Modified Eagle Medium) low glucose, pyruvate	Gibco	11885-084	
Fetal Bovine Serum	Hyclone	SH30910.03	
Phosphate Buffered Saline (PBS) (1x)	Gibco	1897141	
Williams medium E, no glutamine	Gibco	12551-032	
L-alanyl-L-glutamine dipeptide supplement	Gibco	35050-061	
Collagenase Type X	Wako Pure Chemical Industries	039-17864	
Perfusion pump	Cole-Parmer	Masterflex L/S	Equipment
IV administration set	EXELINT	29081	Equipment
A water bath	REVSCI	RS-PB-200	Equipment
Tube heater	Fisher Scientific	Isotemp	Equipment
Ethanol	Decon Lab, Inc	0-39613	
Isoflurane	PHOENIX	10250	
Autoclaved Cotton Tips	Fisherbrand	23-400-124	
100 mm Petri Dish	TPP	93100	
Connector (Male Luer Lock Ring)	Cole-Parmer instrument	EW-4551807	
24 G catheters	TERUMO	Surflo 24Gx3/4'	
100 μm Filter (CELL STRAINERS)	VWR	10199-658	
15 mL conical-bottom centrifuge tubes	VWR	89039-666	

50 mL conical-bottom centrifuge tubes	VWR	89039-658	
Chemoselective ligation reaction PROTEIN ANALYSIS DETECTION KIT, TAMRA ALKYNE	Invitrogen	C33370	
AHA (L-azidohomoalanine)	Invitrogen	C10102	
DMEM (methionine free)	Gibco	21013024	
L-Cystine Dihydrochloride	SIGMA	C2526	
Laemmli sample buffer	BioRad	161-0737	
Protease Inhibitor Cocktail	SIGMA	P9599	
SDS solution (20%)	BioRad	161-0418	
Tris-HCL (1M)	American Bioanalytical	AB14044-01000	
Phosphatase Inhibitor Cocktail	SIGMA	P5726	
Protein concentration measuring Kit (Bovin Serum Albumin-BSA)	BioRad	500-0207	
6-well tissue culture plate	TPP	92006	
Digital Heatblock	VWR	12621-092	Equipment
Multi-Rotator	Grant-bio	PTR-60	Equipment
Ultrasonic Sonicator	Cole-Parmer	GE130PB	Equipment
Standard Heavy-Duty Vortex Mixer	VWR	97043-566	Equipment
A variable mode laser scanner	GE Healthcare Life Science	FLA 9500	Equipment
Coomassie-dye reagent	Thermo Scientific	24594	
Inverted microscope	Olympus	CKX53	Equipment
Western Blotting apparatus	BioRad	1658004	Equipment
Centrifuge	Eppendorf	5424R	Equipment
Automated cell counter	BioRad	TC20	Equipment
FluorChem R system	proteinsimple	-	Equipment
p-Ampka (T172) antibody	Cell signaling	2535	
Total-AMPK antibody	Cell signaling	5832	
Albumin antibody	Cell signaling	4929	
beta actin antibody	Santa Cruz	sc-130656	
Fine scissors and forceps			