

Materials List for

An Improved Time- and Labor- Efficient Protocol for Mouse Primary Hepatocyte Isolation

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jove.com/video/61812

Materials

Name	Company	Catalog Number	Comments
1x PBS	Gibco	10010023	
10x HBSS	Gibco	14065-056	
12-well Plate	FALCON	353043	Coating not required
6-well Plate	FALCON	353046	Coating not required
anti-AKT	Cell Signaling	2920S	
Antibiotic Antimycotic Solution (100x), Stabilized	Sigma-Aldrich	A5955	
anti-FOXO1	Cell Signaling	97635S	
anti-GAPDH	Cell Signaling	2118S	
anti-p-AKT (S473)	Cell Signaling	9271L	
anti-PEPCK	Santa Cruz	SC-166778	
anti-p-FOXO1 (S256)	Cell Signaling	84192S	
Cell Strainer, 70 µm	CELLTREAT	229483	
Closed IV Catheter, 24 Gauge 0.75 IN	Becton Dickinson	383511	
DMEM, no glucose, no glutamine, no phenol red	ThermoFisher Scientific	A1443001	
EnzyChrom Glucose Assay Kit	BioAssay Systems	EBGL-100	
Fetal Bovine Serum (FBS)	Hyclone	SH30071.03	
Forskolin	MilliporeSigma	F3917-10MG	
Glucagon	Sigma-Aldrich	G2044	
Goat Anti-mouse IgG Secondary Antibody	LI-COR	926-68070	
Goat Anti-rabbit IgG Secondary Antibody	LI-COR	926-32211	
GraphPad Prism 8	GraphPad Software	NA	
Hepatocyte Wash Medium	Gibco	17704-024	
IBMX	Cell Signaling	13630S	
Insulin	Lilly	NDC 0002-8215-01	

Ketamine HCL (100 mg/mL)	Hospira Inc	NDC 0409-2051-05	
L-Glutamine	Gibco	25030081	
Liver Digest Medium	Gibco	17703-034	Aliquot within tissue culture hood to 25 mL each in 50 mL tube, and keep in -20 °C freezer
Liver Perfusion Medium	Gibco	17701-038	
Pen Strep	Gibco	15140122	
Percoll	GE Healthcare	17-0891-01	
Peristaltic Pump	Gilson	Minipuls 2	Capable of pumping at 4 mL/min
Petri Dish	Fisherbrand	08-757-12	
Refrigerated Centrifuge	Sorvall	Legend RT	Capable to centrifuge 50 mL tube at 4 °C
Sodium L-Lactate	Sigma-Aldrich	L7022	
Sodium Pyruvate	Gibco	11360070	
Syringe Filter, PVDF 0.45 µm 30mm diameter	CELLTREAT	229745	
Syringe, 0.5 mL	Becton Dickinson	329461	
Syringe, 60 mL	Becton Dickinson	309653	
Trypan Blue Solution, 0.4%	Gibco	15250061	
Tube, 15 mL	Corning	430052	
Tube, 50 mL	Corning	430290	
Water Bath Tank	Corning	CLS6783	Or any water bath tank capable of heating up to 45 °C
William's E Medium (GlutaMAX Supplement)	Gibco	32551020	
Xylozine (100 mg/mL)	Vetone Anased LA	NDC13985-704-10	