

Materials List for

# Isolation and Differentiation of Primary White and Brown Preadipocytes from Newborn Mice

Andrea Galmozzi<sup>1,2</sup>, Bernard P. Kok<sup>1</sup>, Enrique Saez<sup>1</sup>

<sup>1</sup>Department of Molecular Medicine, The Scripps Research Institute, La Jolla, CA, USA <sup>2</sup>Department of Medicine, University of Wisconsin-Madison, School of Medicine and Public Health, Madison, WI, USA

## Corresponding Author

Andrea Galmozzi  
agalmozzi@medicine.wisc.edu

## Citation

Galmozzi, A., Kok, B.P., Saez, E. Isolation and Differentiation of Primary White and Brown Preadipocytes from Newborn Mice. *J. Vis. Exp.* (), e62005, doi:10.3791/62005 (2021).

## Date Published

January 25, 2021

## DOI

10.3791/62005

## URL

jove.com/video/62005

## Materials

Name	Company	Catalog Number	Comments
3-Isobutyl-1-methylxanthine (IBMX)	Sigma-Aldrich	I7018	
6-well plates	Corning	353046	
AdipoRed (Nile Red)	Lonza	PT-7009	
Antimycin A	Sigma-Aldrich	A8674	
BenchMark Fetal Bovine Serum	Gemini Bioproducts LLC	100-106	
CaCl <sub>2</sub>	Sigma-Aldrich	C4901	
Cell strainer	Fisher Scientific	22363549	
Collagenase, Type 1	Worthington Biochemical Corp	LS004196	
ddH <sub>2</sub> O	Sigma-Aldrich	6442	
Dexamethasone	Sigma-Aldrich	D4902	
DMEM	Sigma-Aldrich	D5030	For Bioenergetics studies
DMEM, High Glucose, Glutamax	Gibco	10569010	
DPBS, no calcium, no magnesium	Gibco	14190144	
Fatty Acid-Free BSA	Sigma-Aldrich	A8806	
FCCP	Sigma-Aldrich	C2920	
Gelatin	Sigma-Aldrich	G1890	
Glucose	Sigma-Aldrich	G7021	
HEPES	Sigma-Aldrich	H3375	
Hoechst 33342	Invitrogen	H1399	
Insulin	Sigma-Aldrich	I6634	
KCl	Sigma-Aldrich	P9333	
NaCl	Sigma-Aldrich	S7653	
Norepinephrine	Cayman Chemical	16673	
Oligomycin	Sigma-Aldrich	75351	
Pen/Strep	Gibco	15140122	
Rosiglitazone	Sigma-Aldrich	R2408	
Rotenone	Sigma-Aldrich	557368	

Seahorse XFe96 FluxPak	Agilent Technologies	102416-100	For Bioenergetics studies
Surgical forceps	ROBOZ Surgical Instrument Co	RS-5158	
Surgical Scissors	ROBOZ Surgical Instrument Co	RS-5880	
ThermoMixer	Eppendorf	T1317	
triiodothyronine (T3)	Sigma-Aldrich	642511	