

Materials List for

# Measuring the Rate of Lipolysis in *Ex vivo* Murine Adipose Tissue and Primary Preadipocytes Differentiated *In Vitro*

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## Citation

Bridge-Comer, P.E., Reilly, S.M. Measuring the Rate of Lipolysis in *Ex vivo* Murine Adipose Tissue and Primary Preadipocytes Differentiated *In Vitro*. *J. Vis. Exp.* (193), e65106, doi:10.3791/65106 (2023).

## Date Published

March 17, 2023

## DOI

10.3791/65106

## URL

jove.com/video/65106

## Materials

Name	Company	Catalog Number	Comments
24-Well tissue culture treated plate	Corning Inc	3527	Must be tissue culture treated for adipocyte differentiation
48-Well flat bottom plate with lid	Corning Inc	353078	Can be tissue culture treated
6-Well flat bottom plate with lid	Corning Inc	353046	Can be tissue culture treated
96-Well PCR Plate	USA scientific	1402-9100	Any conical 0.2 mL PCR plate will be convenient
Bovine Serum Albumin	Sigma Aldrich	A9418	FFA free BSA such as A8806, is also commonly used. The BSA should not have detectable FFA, also lot to lot variations in BSA can impact the observed rate of lipolysis
CL-316,243	Sigma Aldrich	C5976	CAS #: 138908-40-4 available from other suppliers
CO2 incubator	PHCBI	MCO-170AICUVH	CO2 should ideally be set to 10% for adipose tissue, however 5% CO2 will also work
DMEM, low glucose, no phenol red	Thermofischer	11054020	Any phenol red free media should work, DMEM/F12, RPMI, but should contain volatile buffering capacity, i.e. bicarbonate
FFA-free Bovine serum albumin	Equitech-Bio, Inc,	BAH66	
Free Glycerol Reagent	Sigma Aldrich	F6428	
Glycerol Standard Solution	Sigma Aldrich	G7793	This can also be made by diluting glycerol to the desired concentration
HR Series NEFA Standard Solution	Fujifilm	276-76491	
HR Series NEFA-HR (2) Color Reagent A	Fujifilm	999-34691	
HR Series NEFA-HR (2) Color Reagent B	Fujifilm	991-34891	
HR Series NEFA-HR (2) Solvent A	Fujifilm	995-34791	
HR Series NEFA-HR (2) Solvent B	Fujifilm	993-35191	

Microbiological Incubator	Fischer Scientific	S28668	Any incubator at 37C can be used
Nunc MicroWell 96-Well Plates	Thermo Scientific	269620	Any optically clear, flat bottom 96-well plate works
Silicone Laboratory Benchtop Mat	VWR	76045-300	Glass plate can also be used. Absorbant surfaces are not recommended
Spectrophotometer/Microplate Reader	Molecular devices	SpectraMax i3x	Any plate reader that can read at 540, 550 and 660 nm will work
V Bovine serum albumin	Sigma-Aldrich	810531	
WypAll X70 Wipers	Kimberly-Clark	41200	Any high quality paper towel will work