

Measurement of Insulin- and Contraction-Stimulated Glucose Uptake in Isolated and Incubated Mature Skeletal Muscle from Mice

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Materials

Name	Company	Catalog Number	Comments
[14C]D-mannitol	American Radiolabeled Chemicals, Inc.	ARC 0127	
[3H]2-deoxy-D-glucose	American Radiolabeled Chemicals, Inc.	ART 0103A	
2-Deoxy-D-glucose	Sigma	D8375	
4-0 USP non-sterile surgical nylon suture	Harvard Apparatus	51-7698	
Streptavidin/HRP (Conjugate)	DAKO	P0397	Used to detect ACC protein
Akt2 antibody	Cell Signaling	3063	
AMPKα2 antibody	Santa Cruz	SC-19131	
aprotinin	Sigma	A1153	
benzamidine	Sigma	B6505	
Bovine serum albumin (BSA)	Sigma	A7030	
CaCl ₂	Merck	1020831000	
Calibration kit (force)	Danish Myo Technology A/S	300041	
Chemiluminescence	Millipore	WBLUF0500	
D-Glucose	Merck	1084180100	
D-Mannitol	Sigma	M4125	
Data collection program	National Instruments	LabVIEW software version 7.1	
Dialysis tubing	Visking	DTV.12000.09 Size No.9	
Digital imaging system	BioRad	ChemiDoc MP	
EDTA	Sigma EDS	E9884	
EGTA	Sigma	E4378	
Electrical Pulse Stimulator	Digitimer	D330 MultiStim System	

Glycerol	Sigma	G7757	
HEPES	Sigma	H7637	
IGEPAL CA-630	Sigma	I8896	
Insulin	Novo Nordisk	Actrapid, 100 IE/mL	
KCl	Merck	1049361000	
KH ₂ PO ₄	Merck	104873025	
Ileupeptin	Sigma	L2884	
MgSO ₄	Merck	1058860500	
Muscle Strip Myograph System	Danish Myo Technology A/S	Model 820MS	
Na-Orthovanadate	Sigma	S6508	
Na-Pyrophosphate	Sigma	221368	
Na-Pyruvate	Sigma	P2256	
NaCl	Merck	106041000	
NaF	Sigma	S1504	
NaHCO ₃	VWR	27778260	
pACC Ser212 antibody	Cell Signaling	3661	
pAkt Thr308 antibody	Cell Signaling	9275	
pAMPK Thr172 antibody	Cell Signaling	2531	
phenylmethylsulfonylfluoride	Sigma	P7626	
Platinum electrodes	Danish Myo Technology A/S	300145	
pTBC1D4 Ser588 antibody	Cell Signaling	8730	
Scintillation counter	Perkin Elmer	Tri-Carb-2910TR	
Scintillation fluid	Perkin Elmer	6013329	
Statistical analyses software	Systat	SigmaPlot version 14	
TBC1D4 antibody	Abcam	ab189890	
TissueLyser II	Qiagen	85300	
Ultrapure water	Merck	Milli-Q Reference A+ System	
β-glycerophosphate	Sigma	G9422	