

Materials List for:

Isolation and Differentiation of Primary Myoblasts from Mouse Skeletal Muscle Explants

Megan Vaughan¹, Katja A. Lamia¹

¹Scripps Research, Department of Molecular Medicine

Correspondence to: Katja A. Lamia at klamia@scripps.edu

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Materials

Name	Company	Catalog Number	Comments
Coating Solution:			
DMEM	Gibco	10569010	Always add gentamicin (1:1,000 by volume) prior to use; 24 mL
HAMS F12	Lonza	12-615F	Always add gentamicin (1:1,000 by volume) prior to use; 24 mL
Collagen	Life Technologies	A1064401	1.7 mL
Matrigel	Fisher	CB40234A	1 mL
Plating Media:			
DMEM	Gibco	10569010	Always add gentamicin (1:1,000 by volume) prior to use; 12.5 mL
HAMS F12	Lonza	12-615F	Always add gentamicin (1:1,000 by volume) prior to use; 12.5 mL
Heat Inactivated FBS	Life Technologies	16000044	20 mL; can be purchased as regular FBS and heat-inactivated by placing in a 40 °C water bath for 20 minutes
Amniomax	Life Technologies	12556023	5 mL
Myoblast Media:			
DMEM	Gibco	10569010	Always add gentamicin (1:1,000 by volume) prior to use; 17.5 mL
HAMS F12	Lonza	12-615F	Always add gentamicin (1:1,000 by volume) prior to use; 17.5 mL
Heat Inactivated FBS	Life Technologies	16000044	10 mL; can be purchased as regular FBS and heat-inactivated by placing in a 40 °C water bath for 20 min
Amniomax	Life Technologies	12556023	5 mL
Differentiation Media:			
DMEM	Gibco	10569010	Always add gentamicin (1:1,000 by volume) prior to use; 24 mL
HAMS F12	Lonza	12-615F	Always add gentamicin (1:1,000 by volume) prior to use; 24 mL
Heat Inactivated Horse Serum	Sigma	H1138	1.5 mL
Insulin-Selenium-Transferrin	Life Technologies	41400045	0.5 mL
Other Materials:			
PBS	Gibco	14040133	
Gentamicin	Sigma	G1397	
TrypLE	Gibco	12604013	

DMSO	Sigma	472301	Prepare as 10% DMSO in Myoblast Media for freezing cells
Forceps	Any		
Razor Blades	Any		
Scissors	Any		
Whatman paper	VWR	21427-648	
60 mm plate	VWR	734-2318	
10 cm plate	VWR	25382-428 (CS)	
T25 Flasks	ThermoFisher	156367	
T75 Flasks	ThermoFisher	156499	
Centrifuge Tubes (15 mL)	BioPioneer	CNT-15	
Oxygen Consumption Rates:			
Seahorse XFe96 Analyzer	Agilent	Seahorse XFe96 Analyzer	Instrument used to measure oxygen consumption rates read out by acidification of the extracellular media
Seahorse XFe96 FluxPak	Agilent	102416-100	96-well plates for use in XFe96 Analyzer
Seahorse XF Cell Mito Stress Test Kit	Agilent	103015-100	components may be purchased from other suppliers once assay is established; some recommendations are listed below
Seahorse XF Palmitate-BSA FAO substrate	Agilent	102720-100	components may be purchased from other suppliers once assay is established; some recommendations are listed below
Palmitic acid	Sigma	P5585-10G	for measurement of fatty acid oxidation
Carnitine	Sigma	C0283-5G	for measurement of fatty acid oxidation
Etomoxir	Sigma	E1905	for measurement of fatty acid oxidation
BSA	Sigma	A7030	used as control or in conjugation with palmitic acid for use in measurement of fatty acid oxidation