

Unfractionated Bulk Culture of Mouse Skeletal Muscle to Recapitulate Niche and Stem Cell Quiescence

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Materials

Name	Company	Catalog Number	Comments
anti-CD31	BD	550274	dilution 1:100
anti-FOSB	Santa Cruz	sc-7203	dilution 1:200
anti-GFP	Abcam	ab13970	dilution 1:1000
anti-Ki67	Abcam	ab16667	dilution 1:1000
anti-MyHC	DSHB	MF20-c	dilution 1:400
anti-MYOD	Active Motif	39991	dilution 1:200
anti-MYOG	Santa Cruz	sc-576	dilution 1:150
anti-Pax7	Santa Cruz	sc-81648	dilution 1:100
anti-PDGFR α	Invitrogen	PA5-16571	dilution 1:50
b-FGF	Peptotech	450-33	concentration 4 ng/mL
Bovine serum albumin (BSA) – used for digestion	Sigma Aldrich	A7906-1006	concentration 0.2%
BSA IgG-free, protease-free – used for staining	Jackson ImmunoResearch	001-000-162	concentration 5%
Cell strainer 40 μ m	Dominique Dutscher	352340	
Cell strainer 70 μ m	Dominique Dutscher	352350	
Cell strainer 100 μ m	Dominique Dutscher	352360	
Collagenase	Roche	10103586001	concentration 0.5 U/mL
Culture plate	Sarstedt	94.6140.802	
Dimethyl sulfoxide (DMSO)	Euromedex	UD8050-05-A	
Dispase	Roche	4942078001	concentration 3 U/mL
Dissection forceps size 5	Fine Science Tools	91150-20	
Dissection forceps size 55	Fine Science Tools	11295-51	
Dissection scissors (big, straight)	Fine Science Tools	9146-11	ideal for chopping
Dissection scissors (small, curved)	Fine Science Tools	15017-10	

Dissection scissors (small, straight)	Fine Science Tools	14084-08	
Dulbecco's Modified Eagle's Medium (DMEM)	ThermoFisher	41966-029	
EdU Click-iT kit	ThermoFisher	C10340	
Fetal bovine serum – option 1	Eurobio	CVF00-01	
Fetal bovine serum – option 2	Gibco	10270-106	
Matrigel	Corning Life Sciences	354234	coating solution
Parafilm	Dominique Dutscher	090261	flexible film
Paraformaldehyde – option 1	PanReac AppliChem ITW Reagents	211511.1209	concentration 4%
Paraformaldehyde – option 2	ThermoFisher	28908	concentration 4%
Penicillin streptomycin	Gibco	15140-122	
Shaking water bath	ThermoFisher	TSSWB27	
TritonX100	Sigma Aldrich	T8532-500 ML	concentration 0.5%
Wild-type mice	Janvier	C57BL/6NRj	