

Materials List for

High-Quality Brain and Bone Marrow Nuclei Preparation for Single Nuclei Multiome Assays

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Materials

Name	Company	Catalog Number	Comments
18 G x 1 ½ (1.2 mm x 38 mm) Agani needles	Terumo	AN*1838S1	
15 mL tubes	Falcon	352097	
5 mL round bottom FACS tube with cell strainer cap 35 µm	falcon	352235	
50 mL tubes	Falcon	352070	
7-AAD	BD pharmagen	559925	
ACK Lysing Buffer	Gibco	A10492-01	
APC anti-mouse CD117 (c-Kit)	BioLegend	105812	Clone: 2B8
APC/Cyanine 7 anti-mouse CD16/32 (FcγR)	BioLegend	101328	Clone: 93
BD FACSAria III	BD Biosciences	non-applicable	
BD FACSDiva Software v8.0.1	BD Biosciences	non-applicable	
Bovine Serum Albumin stock solution 10%	Miltenyi Biotec	130-091-376	
Cell staining buffer	Biolegend	420201	
CFI Suprplan Fluor ELWD 40XC ON 0.6	Nikon	non-applicable	
CMOS camera Prime 95B 25 mm	Photometrix	non-applicable	
Countess II FL Automated Cell Counter	Invitrogen	AMQAF1000	
Countess cell counting chamber slide	Invitrogen	C10283	
Coverglass 24 mm x 24 mm 0.13-0.17 mm	Brand	BR470819	
Digitonine 5%	Invitrogen	BN2006	
Disposable Scalpels	Swann-Morton	0508	
DMEM (1x) + GlutaMAX-I	Gibco	31966-021	
DPBS (10x)	Gibco	14200-067	

DTT	Sigma aldrich	646563	
Epifluorescence inverted microscope Nikon Ti2 -E	Nikon	non-applicable	
Eppendorf Safe-Lock Tubes 0.5 mL	Eppendorf	30123603	
Ethanol 70%	VWR	83801.290	
FITC anti-mouse CD34	Invitrogen	11-0341-85	Clone: RAM34
Forceps for dissection	FST	11152-10	
Heat-inactivated Fetal Bovine Serum (FBS)	Gibco	11533387	
Dounce Homogeniser 2 mL	Bellco glass	1984-10002	Pestle "A" Large Clearance: .0030-.0050" and Pestle "B" Small Clearance: .0005-.0025"
LIVE/DEAD fixable aqua dead cell stain kit	Invitrogen	L34957	
Magnesium chloride solution 1 M	Sigma aldrich	M1028	
Microcentrifuge	Eppendorf	5424R	
Mounting medium Fluoromount-G	invitrogen	00-4958-02	
Nonidet P40 substitute	Sigma aldrich	74385	
Nuclease free water	ThermoFischer	AM9932	
Nuclei buffer 20x	10X Genomics	2000153/2000207	
Nuclei isolation kit EZ prep	Sigma Aldrich	NUC-101	
OneComp eBeads compensation beads	Invitrogen	01-1111-41	
Pacific Blue anti-mouse lineage cocktail (including anti-mouse CD3, Ly-6G/Ly-6C, CD11b, CD45R/B220, TER-119)	BioLegend	133310	Clones (in the same order as the antibodies listed): 17A2, RB6-8C5, M1/70, RA3-6B2, Ter-119
PCR Tube Strips 0.2 mL	Eppendorf	951010022	
PE anti-mouse Ly-6A/E (Sca-1)	BioLegend	122507	Clone: E13-161.7
Petri dish 100 mm x 20 mm OPTILUX	Falcon	353003	
Ply-L-lysine 0.01% sterile-filtered suitable for cell culture	Sigma	P4707	
Printed microscope slides 8 well 6 mm numbered	Epredia	ER-301B-CE24	
Protein LoBind Tubes 1.5 mL	Eppendorf	30108116	
Recombinant Rnase inhibitor 5000 U	Takara	2313A	
Scissors for dissection	FST	14090-09	
Sodium chloride solution 5 M	Sigma aldrich	59222C	
Syringe filters, PES, 0.2 µm	Fisher Scientific	15206869	
Transparent nail polish	any	non-applicable	
Trizma Hydrochloride solution pH 7.4	Sigma aldrich	T2194	
Trypan Blue 0.4%	gibco	15250061	
Tween 20	Biorad	1662404	
UltraPure Distilled Water Dnase/Rnase Free	Invitrogen	10977-035	