

Materials List for:

Detection of MicroRNAs in Microglia by Real-time PCR in Normal CNS and During Neuroinflammation

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Materials

Name	Company	Catalog Number	Comments
1X PBS	GIBCO	14190	Can be prepared from dry components in the laboratory, pH: 7.2-7.4
10X PBS	Thermo Scientific	SH30258.02	Can be prepared from dry components in the laboratory, pH: 7.2-7.4
DMEM; FBS	GBCO	11965; 10438	
miRVana kit	Invitrogen	AM1561	
Percoll	Sigma	P4937-500 ml	100 ml of 100% Percoll is prepared by mixing 10 ml of 10X PBS and 90 ml of Percoll from Sigma. 50 ml of 70% Percoll is prepared by mixing of 35 ml of 100% Percoll and 15 ml of DMEM 50 ml of 40% Percoll is prepared by mixing 20 ml of 100% Percoll and 30 ml of 1X PBS
MOG ₃₅₋₅₅ peptide	AnaSpec Inc	60130-5	
CFA	DIFCO	263810	
Pertussis Toxin	Sigma	P7208	
FcR blocking antibodies	BD Biosciences	553142	Clone 2.4G2
Anti-CD11b ⁺ PE mAb	BD Biosciences	553311	Can be used with different fluorophores (e.g. AF488)
Anti-CD45-APC-Cy7 mABs	Biolegend	103116	Can be used with different fluorophores (e.g. APC)
Paraformaldehyde (16%)	EMS Inc	15710	Dilute 1:15 in 1X PBS
15% TBE-Urea Gel	Life Technologies Inc.	EC68855BOX	
TaqMan MicroRNA Reverse Transcription Kit	Life Technologies Inc	4366596	
TaqMan Universal PCR Master Mix	Life Technologies Inc	4304437	
TaqMan MicroRNA Assays mmu-miR-124a	Life Technologies Inc	4427975 ID 001182	
TaqMan MicroRNA Assays snoRNA-55	Life Technologies Inc	4427975 ID 001228	
Nuclease-free water	Life Technologies Inc	AM9937	Nuclease-free water
384-well clear optical reaction plate	Life Technologies Inc.	4309849	Can be substituted with other plates (e.g. 96 well plate) in different real-time PCR instruments
Dounce homogenizer (15 ml)	Wheaton Science Products.	358044	Teflon/glass
40 µ nylon cell strainer	Falcon	352340	

Big centrifuge	Sorval	RT 6000B	Rotor diameter 18.5 cm
Small centrifuge	Eppendorf	5415 R	Rotor diameter 6.5 cm
Real-time PCR Instrument	Life Technologies Inc.	AB 7900 HT	Can be substituted with other instruments
Flow cytometer	BD Biosciences	LSR II	Can be substituted with other instruments
FACS	BD Biosciences	FACSAria	Can be substituted with other instruments
Nanodrop spectrophotometer	Thermo Scientific	Nanodrop 1000	