

Materials List for

Systems Analysis of the Neuroinflammatory and Hemodynamic Response to Traumatic Brain Injury

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jove.com/video/61504

Materials

Name	Company	Catalog Number	Comments
Adjustable pipettes			any adjustable pipette
Aluminum foil	VWR	89107-726	
Bio-Plex cell lysis kit	C Bio-Rad	171304012	
BRAND BRANDplates pureGrade Microplates, Nonsterile	BrandTech	781602 96	
Complete mini protease inhibitor tablet	Sigma-Aldrich	11836153001	
Depilatory cream	Amazon	Nair	
DiH ₂ O	VWR	VWRL0200-1000	
Handheld magnetic separator block for 96 well flat bottom plates	Millipore Sigma Catalogue	40-285	
Hardware Autocorrelator Board	www.correlator.com	Flex05-8ch	
Isoflurane 250 mL	MED-VET INTERNATIONAL	RXISO-250	
Kimwipe (11.2 x 21.3 cm)	VWR	21905-026	
Laboratory vortex mixer	VWR	10153-838	
LabView	National Instruments	LabVIEW	
Luminex 200, HTS, FLEXMAP 3D, or MAGPIX with xPONENT software	Luminex Corporation		
Luminex Drive Fluid	Luminex	MPXDF-4PK	
Luminex sheath fluid	EMD Millipore	SHEATHFLUID	
MILLIPLEX MAP Mouse Cytokine/ Chemokine Magnetic Bead Panel - Premixed 32 Plex - Immunology Multiplex Assay	Millipore Sigma	MCYTMAG-70K-PX32	
MILLIPLEX MAPK/SAPK Signaling 10-Plex Kit-Cell Signaling Multiplex Assay	Millipore Sigma	48-660MAG	
Mini LabRoller rotator	VWR	10136-084	

Phenylmethylsulfonyl fluoride	Sigma-Aldrich	P7626-1G	
Phosphate-buffered Saline (PBS)	VWR	97064-158	
Plate Sealer	VWR	82050-992	
Polypropylene microfuge tubes	VWR	20901-547	
Mini LabRoller	Millipore Sigma	Z674591	
Reagent Reservoirs	VWR	89094-668	
R Programming Language			
RStudio	www.rstudio.com		
Sonicator			
Titer plate shaker	VWR	12620-926	
Tween20	Sigma-Aldrich	P9416-50ML	
1 m acrylic guide tube	McMaster-Carr	49035K85	
4 photon counting avalanche photodiode	Perkin-Elmer	SPCM-AQ4C-IO	
400 um multimode source fiber	Thorlabs Inc.	FT-400-EMT	
54 g bolt	Ace Hardware		0.95 cm basic body diameter, 2 cm head diameter, 10.2 cm length
780 nm single mode detector fiber	Thorlabs Inc.	780HP	
852 nm long-coherence length laser	TOPTICA Photonics	iBeam smart	