

Materials List for

Minimizing Hypoxia in Hippocampal Slices from Adult and Aging Mice

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jove.com/video/61377

Materials

Name	Company	Catalog Number	Comments
"60 degree" tool	made in-house		
#10 scalpel blade	Bard-Parker (Aspen Surgical)	371110	
1M CaCl ₂	Fluka Analytical	21114	
95%O ₂ /5%CO ₂	Praxiar or another local supplier		
Acepromazine maleate (Aceproject)	Henry Schein	5700850	
Agar	Fisher	BP1423-500	
Beakers, measuring cylinders, reagent bottles			
Brushes size 00-2	Ted Pella		Crafts stores are another source of soft brushes, with larger selection and better quality than Ted Pella.
CCD camera	Olympus	XM10	
Choline bicarbonate	Pfalz & Bauer	C21240	
Cyanoacrylate glue	Krazy glue		Singles
Decapitation scissors	FST	14130-17	
Feather blades	Feather	FA-10	
Filter paper #2	Whatman		Either rounds or pieces cut from a bigger sheet work well.
Forceps	A. Dumont & Fils	Inox 3c	
Glass bubblers (Robu glass borosilicate microfilter candles) - porosity 3	Robuglas.com	18103 or 18113	Glass bubblers are more expensive than bubbling stones used in aquaria. However, they are easy to clean and sterilize, and can last a long time.
Glucose	Sigma-Aldrich	G8270	
HCl	Fisher	A144SI-212	
Ice buckets			
KCl	Sigma-Aldrich	P4504	
Ketamine HCl (KetaVed)	VEDCO	NDC 50989-996-06	
KH ₂ PO ₄	Sigma-Aldrich	P0662	

Leica Tissue slicer VT1000S			The cutting settings are 1 mm horizontal blade amplitude, frequency dial at 9, and speed setting at 2
Magnetic stirrers and stir bars			
Mg ₂ SO ₄ x 7H ₂ O	Sigma-Aldrich	230391	
MgCl ₂	Sigma-Aldrich	M9272	
MilliQ water machine	Millipore		Source for 18 Mohm water
Na-ascorbate	Sigma-Aldrich	A4035	
Na-pyruvate	Sigma-Aldrich	P8574	
NaCl	Sigma-Aldrich	S3014	
NaHCO ₃	EMD	SX0320-1	
Needle 27G1/2			
NMDG	Sigma-Aldrich	M2004	
Paper tape			
Peristaltic pump	Cole-Parmer	#7553-70	
Peristaltic pump head	Cole-Parmer	Masterflex #7518-00	
Personna blades		Personna double edge	Amazon
pH meter			
Recovery chamber	in-house made		
Scalpel blade handle size 3	Bard-Parker (Aspen Surgical)	371030	
Scissors angled blade	FST	14081-09	
Single edge industrial razor blade #9	VWR	55411	
Spatulas			
Transfer pipettes	Samco Scientific	225	
Upright microscope	Olympus BX51WI		
Xylazine HCl (XylaMed)	VetOne	510650	