

Materials List for:

In vivo Imaging of Optic Nerve Fiber Integrity by Contrast-Enhanced MRI in Mice

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Materials

Name	Company	Catalog Number	Comments
Manganese (II) chloride solution 1 M	Sigma Aldrich, Taufkirchen, Germany	M1787	MEMRI contrast reagent
Conjuncaïn	Dr. Mann Pharma, Berlin, Germany	PZN 7617666	0.4% oxybuprocaine hydrochloride
Floxal eye drops	Dr. Mann Pharma, Berlin, Germany	PZN 3820927	3 mg/ml ofloxacin
Ointment panthenol	Jenapharm, Jena, Germany	PZN 3524531	
Chloral hydrate	Sigma Aldrich, Taufkirchen, Germany	C8383	420-450 mg/kg body weight
Hamilton syringe	Hamilton Company, Reno, NV, USA	7634-01	SYR 5 µl, 75 RN, no NDL
34 G needle (34/35/pst4/tapN)	Hamilton Company, Reno, NV, USA	207434/00	removable needle RN, 34 G, length 38.1 mm, point style 4
Binocular Stemi-2000	Zeiss, Oberkochen, Germany		
3 T MRI scanner Magnetom TIM Trio	Siemens Medical Solutions, Erlangen, Germany		
Rat head coil	Doty Scientific Inc., Columbia, SC, USA		
Mouse holder			custom made
Red light lamp			
Frozen section medium NEG-50	Thermo Fisher Scientific, Schwerte, Germany	6502	tissue embedding for cryo-sections
Sodium dihydrogen phosphate monohydrate (NaH ₂ PO ₄ ·H ₂ O)	Merck, Darmstadt, Germany	106346	for sulfide perfusion
Sodium sulfide nonahydrate (Na ₂ S·9H ₂ O)	Sigma Aldrich, Taufkirchen, Germany	208043	
Gum arabic	Roth, Arlesheim, Switzerland	4159	for TIMM staining
Hydroquinone (C ₆ H ₆ O ₂)	Roth, Arlesheim, Switzerland	3586	
Citric acid (C ₆ H ₈ O ₇)	Roth, Arlesheim, Switzerland	6490	
Tri-sodium citrate dihydrate (C ₆ H ₅ Na ₃ O ₇ ·2H ₂ O)	Merck, Darmstadt, Germany	106448	
Silver nitrate (AgNO ₃)	Roth, Arlesheim, Switzerland	7908	