

Materials List for:

Functional Imaging of Auditory Cortex in Adult Cats using High-field fMRI

Trecia A. Brown^{1,6}, Joseph S. Gati⁵, Sarah M. Hughes⁵, Pam L. Nixon^{1,6}, Ravi S. Menon^{3,4,5}, Stephen G. Lomber^{1,2,4,5,6,7}

¹Department of Physiology and Pharmacology, University of Western Ontario

²Department of Psychology, University of Western Ontario

³Department of Medical Biophysics, University of Western Ontario

⁴Brain and Mind Institute, University of Western Ontario

⁵Centre for Functional and Metabolic Mapping, Robarts Research Institute, University of Western Ontario

⁶Cerebral Systems Laboratory, University of Western Ontario

⁷National Centre for Audiology, University of Western Ontario

Correspondence to: Trecia A. Brown at tbrow@uwo.ca

URL: <https://www.jove.com/video/50872>

DOI: [doi:10.3791/50872](https://doi.org/10.3791/50872)

Materials

Name	Company	Catalog Number	Comments
Materials			
Atropine sulphate injection 0.5 mg/ml	Rafter 8 Products		
Acepromazine 5 mg/ml	Vetoquinol Inc.		
Ketamine hydrochloride 100 mg/ml	Bimeda-MTC		
Dexmedetomidine hydrochloride (Dexdomitor 0.5 mg/ml)	Orion Pharma		
Isoflurane 99.9%	Abbott Laboratories		
Lidocaine (Xylocaine endotracheal 10 mg/metered dose)	Astra Zeneca		
Lubricating ophthalmic ointment (Refresh Lacri Lube)	Allergan Inc.		
Saline 0.95%			
IV Catheter 22 g (wings)			
IV Extension Set	Codan US Corp.	BC 269	
IV Administration Set 10 drips/ml			
Endotracheal tube 4.0			
Heating pads (Snuggle Safe)	Lenric C21 Ltd.		
Syringe 60 ml			
Equipment			
External sound card	Roland Corporation	Cakewalk UA-25EX	
Stereo power amplifier	Pyle Audio Inc.	Pyle Pro PCAU11	
MRI-compatible insert earphone system	Sensimetric Corporation	Model S14	
Foam ear tips for insert earphones	E-A-R Auditory Systems	Earlink 3B	
End-tidal CO ₂ monitor	Nellcor	N-85	
MRI-compatible pulse oximeter	Nonin Medical Inc.	Model 7500	
Syringe pump	Harvard Apparatus	70-2208	