

Materials List for:

# Characterizing Multiscale Mechanical Properties of Brain Tissue Using Atomic Force Microscopy, Impact Indentation, and Rheometry

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## Materials

Name	Company	Catalog Number	Comments
Xylazine	Lloyd Laborated		perscription drug
Ketamine	AnaSed Injections		perscription drug
Vibratome (Vibrating blade microtome)	Leica	VT1200	
Hibernate-A Medium	Gibco	A1247501	CO <sub>2</sub> -independent neural medium for adult tissue
Atomic Force Microscope, MFP-3D-BIO	Asylum Research	-	
Petri Dish Heater	Asylum Research	-	
AFM Probe, 0.03 N/m, 10 μm radius borosilicate sphere	Novascan	PT.GS	
Cell-Tak	Corning	354240	mussel-derived bioadhesive
Sodium Bicarbonate	Sigma-Aldrich	S5761	alternate suppliers can be used
Sodium Hydroxide, 1 N	Sigma-Aldrich	59223C	alternate suppliers can be used
Instrumented Indenter, NanoTest Vantage	Micro Materials Ltd.	-	probe tip needs to be machined (steel flat punch, 1 mm diameter, 4-5 mm length)
NanoTest Liquid Cell	Micro Materials Ltd.	-	
Parallel Plate Rheometer MCR501	Anton-Parr	-	
PP25	Anton-Parr	-	25 mm diameter flat measurement plate
Adhesive Sandpaper	McMaster-Carr	4184A48	alternate suppliers can be used
Loctite 4013 Instant Adhesive	Henkel	20268	alternate suppliers can be used