

Materials List for:

# Hydraulic Extrusion of the Spinal Cord and Isolation of Dorsal Root Ganglia in Rodents

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URL: <https://www.jove.com/video/55226>

DOI: [doi:10.3791/55226](https://doi.org/10.3791/55226)

## Materials

Name	Company	Catalog Number	Comments
Bonn scissors, extra fine, straight, 8.5 cm	F.S.C. (Fine Science Tools)	# 14084-08	For cutting open the spinal cord prior to isolation of DRGs (adult mouse, adult rat); Other manufacturer may be used
Centrifuge	Eppendorf	# 5427 R	For centrifugation of homogenized tissue
Cryostat microtome	Leica Biosystems	# CM 3050 S	For cutting the embedded tissue prior to staining; Other model and manufacturer may be used
Forceps, Dumont, # 3	F.S.C. (Fine Science Tools)	# 11231-30	For handling of spinal cord after extrusion; Other manufacturer/type may be used
Forceps, Dumont, # 5	F.S.C. (Fine Science Tools)	# 11252-20	For isolation of DRGs (adult mouse, adult rat, pup); Other manufacturer may be used
Isoflurane (furane) IsoFlo Vet 100%	Abbott	# 002185	For euthanization; Other manufacturer may be used; CAUTION: toxic
Iso-pentane GPR rectapur	VWR chemicals	# 24872.298	For snap-freezing of tissue; Other manufacturer may be used; CAUTION: toxic
Microtome	Leica Biosystems	# RM 2155	For sectioning of paraffin embedded tissue; Other model and manufacturer may be used
Paraffin wax pellets	Sigma-Aldrich	# 76243	For paraffin embedding; Other manufacturer may be used
Paraffin tissue embedding station	Leica Biosystems	# EG1160	For paraffin embedding of tissue for later sectioning; Other model and manufacturer may be used
Pellet pestel, motor cordless	Sigma-Aldrich	# Z359971-1EA	For mechanical homogenization of isolated tissue prior to Western blotting; Other manufacturer may be used
Petri dish, 35 mm	Thermo Fischer Scientific	# 121V	For storage of isolated DRGs; Other manufacturer and size may be used
Petri dish, 100 mm	Sigma-Aldrich	# P7741	For spinal cord extrusion; Other manufacturer and size may be used
Phosphatase inhibitor, Phosstop	Sigma-Aldrich	# 04906845001	Phosphatase inhibitor cocktail for addition to TNE-lysis buffer if needed; Other manufacturer may be used

Pipette tip, 1-200 $\mu$ L, no filter	Sarstedt	# 70.1189.105	For hydraulic extrusion; Other manufacturer may be used
Protease inhibitor, Complete	Sigma-Aldrich	# 05892791001	Protease inhibitor cocktail for addition to TNE-lysis buffer if needed; Other manufacturer may be used
RNAlater solution	Sigma-Aldrich	# R0901	For RNA stabilization for storage; Other manufacturer may be used
Rneasy Protect Mini KIT	Qiagen	# 74124	For RNA isolation; Other manufacturer may be used
Scalpel; Swann-Morton surgical blade no. 11	Swann-Morton	# REF0203	For isolation of spinal cord lumbar area; Other manufacturer/type may be used
Scissors, straight, type 3, 25 mm cutting edge	Bochem	# 4070	For isolation of spine; Other manufacturer/type may be used
Scissors, 130 mm cutting edge	Hounisen	# 1902.0130	For isolation of spinal cord (adult rat)
Spring scissors, straight, 8 mm cutting edge	F.S.C. (Fine Science Tools)	# 15009-08	For cutting open the spinal column prior to isolation of DRGs (pup) and for isolation of DRGs (adult mouse, adult rat, pup); Other manufacturer may be used
Standard syringes, 2.5 mL, 5 mL, 10 mL	Terumo	# SS02SE1; # SS05SE1; # SS10SE1	For hydraulic extrusion; Other manufacturer may be used
Stereomicroscope MZ12.5 with objective 1X and eyepiece 10X	Leica	# 10446370	Other manufacturer/type may be used
Sterile PBS	GIBCO	# 10010-015	For hydraulic extrusion; Can also be made according to standard protocols
Syringe needle 23 G x 1", 0.6 x 25 mm	Terumo Neolus	# NN-2325R	For hydraulic extrusion in pups; Other manufacturer/type may be used
Syringe needle 18 G x 1 1/2, 1.2 x 40 mm	Terumo Neolus	# NN-1838S	Alternative to pipette tip for hydraulic extrusion in adult mice; Other manufacturer may be used
Tissue-Tek	Sakura	# 4583	Tissue embedding material for later cryosectioning
TNE-lysis buffer	VWR chemicals	# 10128-582	For tissue lysis prior to Western blotting; Other manufacturer may be used; Can also be made according to standard protocols