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Perfusion/ Fixation for cryostat slicing for HHC

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Protocol status: Working

We use this protocol and it's working

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Keywords: ASAPCRN, fixation for cryostat slicing, cryostat slicing, hhc this protocol, hhc, perfusion, protocol detail

Disclaimer

ETHICS DISCLAIMER

The **protocols.io** team notes that research involving animals and humans must be conducted according to internationally-accepted standards and should always have prior approval from an Institutional Ethics Committee or Board.

Abstract

This protocol details the Perfusion and Fixation for cryostat slicing for HHC.

Materials

Composition:

SUCROSE SOLUTION 30%	500 mL	1L
dH2O	250 mL	500 mL
Sodium Phosphate Monobasic (NaH ₂ PO ₄ ·H ₂ O)	2.691g	5.382g
Sodium Phosphate Dibasic Anhydrous (Na ₂ HPO ₄)	4.331g	8.662g
Mix until salts are completely dissolved.		
Sucrose	150g	300g
Complete to final volume with dH ₂ O, filter Adjust pH to 7.4, filter and store at 4 degrees		



Cryostat slicing

2d 1h 36m 30s

- 1 Weight the animal.
- 2 Anesthetize the animal with sodium pentobarbital ( 100 mg/kg et  7 mg/ml) by i.p. injection with a 27G needle.
- 3 Confirm the absence of pain reflex (paw pinch).
- 4 Perfuse the animal with  50 mL of PBS followed by  50 mL of PFA 4% by trans-cardiac injection with a butterfly needle while the right atrium is detached from the superior vena cava.
- 5 Extract the brain and immerse it  48:00:00 in PFA 4% followed by  48:00:00 -  96:00:00 in sucrose 30% (until the initially floating brain drops to the bottom of the tube) 2d 1h 36m

Composition:

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Using dry ice, cool isopentane to  -30 °C and submerge the brains for

30s

 00:00:15 -  00:00:30 in the freezing solution before storing them at  -80 °C

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