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Mouse Perfusion Protocol

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Protocol status: Working

We use this protocol and it's working

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Abstract

This protocol details the mouse perfusion procedure.

Attachments






[452-958.docx](#)

16KB

Troubleshooting



For perfusion with 1x K⁺-free PBS:

- 1 Place mouse in isoflurane chamber until unresponsive to toe pinch stimuli.
- 2 Proceed to cut abdominal skin down both sides to expose the diaphragm.
- 3 Cut around diaphragm to expose the heart.
- 4 Cut right atria and insert perfusion needle into left ventricle with pump set to  5 rpm .
- 5 Perfuse  80 mL -  100 mL K⁺-free PBS until the liver is clear and liquid expelling from heart is completely clear.
- 6 Carefully remove brain and cut on mid-sagittal line using brain matrix.
- 7 Drop-fix left hemisphere in cold 4% paraformaldehyde for histological processing.
- 8 Sub-dissect right hemisphere for regions of interest.