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Sectioning Rat Heart

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Protocol status: Working

We use this protocol and it's working

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Abstract

This is the straightforward procedure we follow when sectioning rat heart.

Troubleshooting



Sectioning

1. Take rat heart out of  -80 °C freezer and place into cryostat.

Note


Allow heart sample to sit in cryostat for at least 20-30 minutes before beginning to section. This will allow for the OCT to equalize to the cryostat temperature and prevent any cracking in the OCT and tissue to occur.

2. Set the cryostat to desired tissue thickness and begin the tissue sectioning process

3. Collect the tissue section gently onto the slide

Note

For rat hearts typically two sections are collected per slide. A variety of slide types (superfrost glass +, histobond, frame membrane and glass membrane) can be used.

4. Immediately after tissue sections are collected, place slides into a box containing dry ice until slides can be transferred to the  -80 °C freezer.