



MUSCLE TISSUE SECTIONING

PROTOCOL FOR CUTTING SLICES OF MUSCLE TISSUE

Key to reading the protocol:

√ Rationale for procedural step

♠ Tips & Tricks

1. Extract the specific muscle tissue out you want to use your research.
2. Select a section of the muscle that you would like to take cut for slices.
3. Glue the tissue sample onto the Compresstome® specimen syringe.
4. Draw the syringe downward to bring the muscle tissue core sample into the syringe.
5. Fill the syringe with 2% agarose (Sigma A-0701, low gelling point, incubated at ~37°C).
 - a. Order a Starter Kit or additional agarose or blades directly from our website at <http://www.precisionary.com/starter-kit> !
6. Cool the entire contents of the specimen syringe with the chilling block. The muscle tissue is now embedded in agarose. The agarose will solidify enough for stable sectioning.
7. Load the specimen syringe onto the Compresstome® slicer.
8. The protocol is complete for preparing the muscle tissue specimen for sectioning. Proceed from here with normal Compresstome® sectioning procedures.

References

*** Uses the Compresstome® for successful muscle tissue slices.**

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2. Gallos G, Yocum GT, Siviski ME, Yim PD, Xiao WF, et al. Selective targeting of the $\alpha 5$ -subunit of GABAA receptors relaxes airway smooth muscle and inhibits

cellular calcium handling. *American Journal of Physiology Online*. 2015 May 1(309)9: L931-L942. DOI: 10.1152/ajplung.00107.2014.

3. Danielsson J, Perez-Zoghbi JF, Bernstein K, Barajas MB, Zhang Y, et al. Antagonists of the TMEM16A Calcium-activated Chloride Channel Modulate Airway Smooth Muscle Tone and Intracellular Calcium. *Anesthesiology Online*. 2015 Sept. 1;(123) 569-581. doi:10.1097/ALN.0000000000000769.
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