



### TISSUE SECTIONING

#### PROTOCOL FOR CUTTING SLICES OF SKIN TISSUE

#### **Key to reading the protocol:**

√ Rationale for procedural step

#### ♠ Tips & Tricks

1. Extract the specific skin tissue out you want to use your research.
2. Select a section of the skin 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 skin 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 skin 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 skin tissue specimen for sectioning. Proceed from here with normal Compresstome® sectioning procedures.

#### **References**

**\* Uses the Compresstome® for successful skin tissue slices.**

1. Nia HT, Liu H, Seano G, Datta M, Jones D, Rahbari N, et al. Solid stress and elastic energy as measures of tumour mechanopathology. *Nat. Biomed. Eng.* 1, 0004. 2016 Nov 28; 18;(1):1. doi:10.1038/s41551-016-0004.