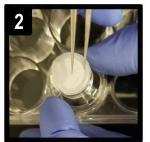
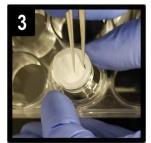
A



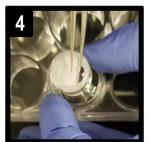
To remove the membrane from a culture insert, begin by placing the VHSE culture insert upside down, over a well.



Stabilize each culture insert using one hand & hold fine tip forceps or a precision knife with the other hand.



Use the tool to make a small incision on the membrane at the circumference border of the insert well. Start in an area that is not close to the VHSE culture.



Using the tool, lift the membrane up & begin to pull toward the opposite side. More incisions may be needed. Avoid puncturing the construct.



Pull the membrane off from other edges as well. The construct should fall into the well below, if it doesn't then gently separate the construct from the membrane using a tool.



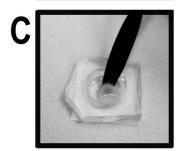
Keep each VHSE submerged in staining fluid or PBS by using the culture insert housing. All membrane pieces should already be removed.



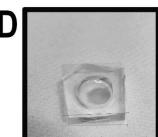
The insert housing keeps constructs from floating during staining; it pins down the construct without affecting macrostructure.



Each VHSE should be totally submerged when staining. For long term storage, allow the construct to sit in the middle of the well with plenty of PBS.



The safest way to move a construct is with a small round tipped scoopula to prevent accidental squeezing or puncture from fine-tip forceps.



A VHSE is shown in a PDMS well constructed for imaging. PDMS is glued to a glass slide, creating a viewing window. PBS is in the well as imaging fluid. A glass cover slip is placed over the well.