PathnSitu Biotechnologies

Your Advanced Tissue Pathology Partner

User Guide to Use

MICROARRAY KIT

www.pathnsitu.com

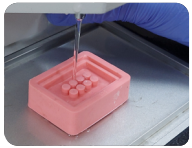
How to Make a Microarray Block using Mold

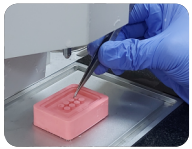
1. Take the microarray mold of desired no of cores and size.

2. Place the mold in the dry oven at 70°C-80°C for 30 mins to warm up the mold. (**Note:** This is recommended to extend the durability of the mold and to produce a good quality block).

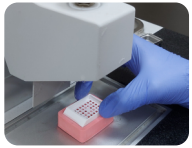
3. After 30 mins, fill the mold completely with liquid paraffin wax until the cores are completely submerged.

   (**Note:** Dispense the wax slowly to avoid bubble formation but if the bubbles are formed, pop it using the forceps)





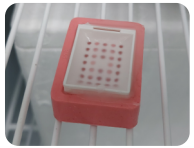
4. Place the cassette carefully over the mold.



Pour enough paraffin wax over the cassette

Leave it at room temperature for 30 mins

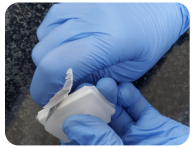
5. Refrigerate the mold at 4°C-8°C for 60-120 mins. (**Caution:** Do not keep the block at -20°C as it will make the blocks brittle)



6. Remove the mold from the refrigerator and place it at room temperature for 10-15mins.

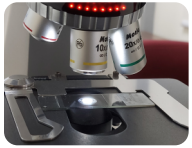
7. Carefully separate the mold from the recipient block.

8. Trim the extra paraffin wax around the edge of the tissue microarray block. The block is ready for the tissue embedding.

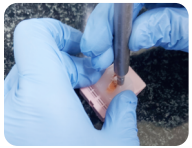


How to Array the Sample Tissues into the Recipient Block

1. Place the reference slide and the donor block on the microscope stage to mark the area of interest.

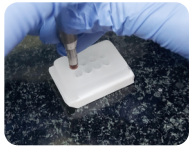


2. Extract the marked tissue from the donor block by using the appropriate PathnSitu punch /needle provided in the kit.



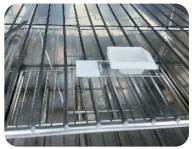
3. Place the donor block on a horizontal and flat table.

4. Hold the needle perpendicular to the marked position of the donor block.



5. Insert the needle into the donor block at the appropriate depth of 5mm slowly. Gently tap the tissue cores inside the block for a uniform surface.

6. Place the tissue microarray block over the glass slide (facing downwards) in the oven at 45°C for 2 hours. This makes it easier to cut the block on microtome as the cores will stick to the hole of the recipient block.



7. Using the microtome, cut 3mm-4mm tissue and proceed for the desired experiment.

Scan the QR code or visit the link -https://www.youtube.com/watch?v=484AENulhgU to watch the video on how to make a microarray block and how to array sample tissues in the block.

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