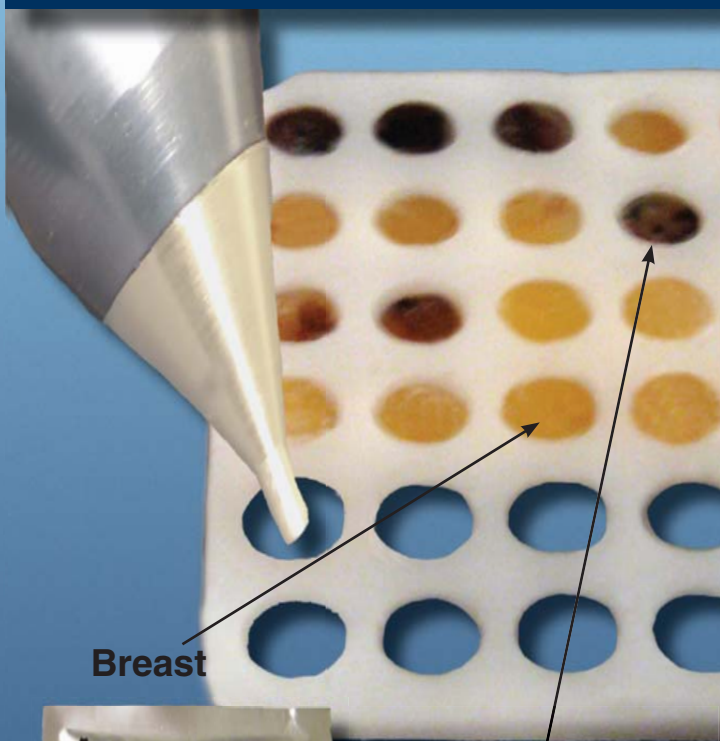
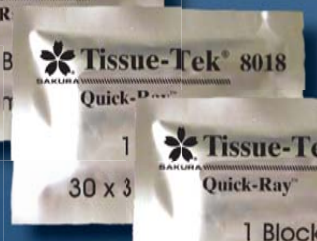
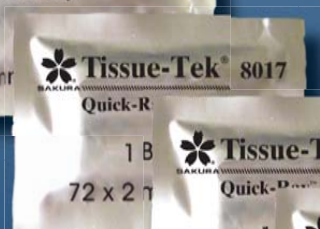


Building Superior Results



Breast

Liver



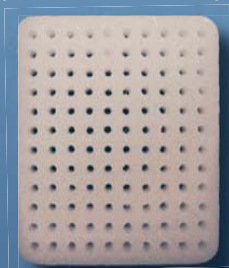
Tissue-Tek® Quick-Ray™

SAKURA

Tissue Microarray System

What is a Tissue Microarray

Tissue Microarrays (TMA) are a collection of multiple tissue cores that are arranged in an XY fashion inside of a paraffin block allowing for histological analysis. The Tissue-Tek® Quick-Ray™ technique, uses a hollowed tip to remove tissue cores as little as 1mm, from paraffin embedded tissue (donor block). The extracted tissue is then inserted into a pre-formed recipient block.



1mm Recipient Block

The Quick-Ray system is the only system available that uses a pre-formed paraffin recipient block. No other system or instrument provides a ready-to-use paraffin recipient block.

The finished block is then sectioned using a microtome; the sections are mounted on glass slides and then stained. Each TMA block can be cut into 300-400 sections at 4-5 μ , which can then be subjected to independent tests. Common tests include immunohistochemistry, and fluorescent in situ hybridization.

The Tissue-Tek® Quick-Ray™ System represents the newest technique available for producing superior quality Tissue Microarrays (TMA) in less time than traditional methods, at a fraction of the cost.



SAKURA

Tissue-Tek® Quick-Ray™ Tissue Microarray System

Compact design and versatility make building a Tissue-Tek® Quick-Ray™ TMA astoundingly simple. The construction of a TMA block can be done on any clean counter. A dedicated space is not required.

Simple Preparation

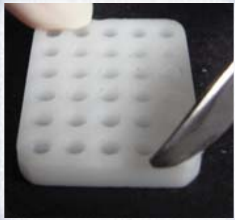


Figure 1

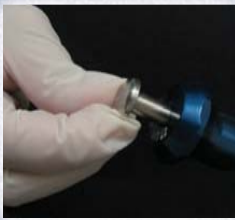


Figure 2

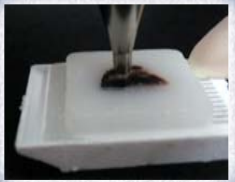


Figure 3



Figure 4

1. Select the start position and orient the recipient block. (Figure 1)
2. Screw tip on clockwise.
3. Turn plunger knob clockwise until appropriate depth is reached. (Figure 2)
4. Insert puncher straight down into donor block, applying even pressure. (Figure 3)
5. Pull puncher straight out of donor block.
6. Insert extracted tissue into an open core in the recipient block. (Figure 4)
7. Repeat steps 4 thru 6 until recipient block is full.
8. Gently push or tap all tissue cores to ensure evenness for microtomy.

Easy Heating

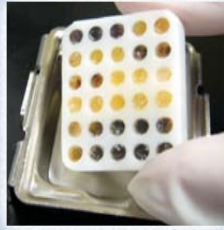


Figure 5



Figure 6



Figure 7

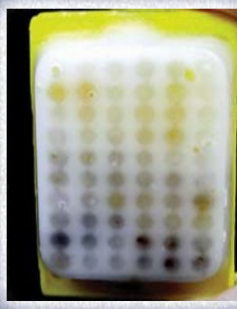


Figure 8

1. Place completed recipient block into basemold. (Figure 5)
2. Place basemold into 60°C oven for approximately 30 minutes.
3. After 30 minutes or when block is completely transparent, remove from oven. (Figure 6)
4. Place Tissue-Tek® Cassette on top of transparent block.
5. Dispense paraffin into basemold; adequately covering the cassette. (Figure 7)
6. Place on cold plate to solidify the block.
7. Once block is solidified it is ready for microtomy. (Figure 8)

Microtomy Procedures

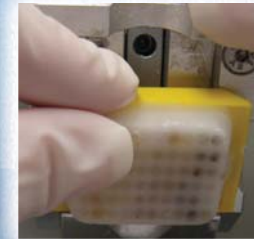


Figure 9



Figure 10

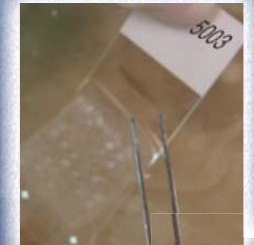


Figure 11

1. Place block in microtome. (Figure 9)
2. Face block and cut paraffin sections. (Figure 10)
3. Place paraffin ribbon in water bath.
4. Attach section to a glass slide. (Figure 11)
5. Proceed with standard operating procedures for staining.



The Tissue-Tek Quick-Ray Tissue Microarray System consists of one puncher, four paraffin recipient blocks (1mm, 2mm, 3mm, and 5mm), one basemold and four punch tips (1mm, 2mm, 3mm, and 5mm).

8010 Tissue-Tek® Quick-Ray™ System

8011 Punch Guide, 1mm

8012 1mm, Punch Tip-1/ea

8013 2mm, Punch Tip-1/ea

8014 3mm, Punch Tip-1/ea

8015 5mm, Punch Tip-1/ea

8016 1mm, Recipient Block-1/ea

8017 2mm, Recipient Block-1/ea

8018 3mm, Recipient Block-1/ea

8019 5mm, Recipient Block-1/ea

8020 Quick-Ray Basemold- 3/cs



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