

**Fast and cost-effective
TMAs**

Tissue-Tek® Quick-Ray™
Tissue Microarray System



continuous innovation for pathology



Tissue Microarray for clinical or research applications

Tissue Microarray (TMA) is a collection of multiple tissue cores from different cases arranged in an XY grid in a paraffin recipient block. Serial sections of reproducible thickness are produced and mounted on charged slides. These slides are ideal for producing positive and negative immunohistochemistry (IHC) control slides.

The Tissue-Tek® Quick-Ray™ uses a Punch Pen and a hollow Punch Tip to remove tissue cores as small as 1 mm in diameter from a donor block. Extracted tissue is inserted into a pre-formed Recipient Block and re-embedded into a single microarray block. The Tissue-Tek Quick-Ray is the only system available that uses a patented, pre-formed paraffin Recipient Block, saving time and resources without having to purchase expensive instruments.

The finished block is then sectioned on a microtome; the sections are mounted on charged glass slides and stained. Each TMA block can be cut into 300-400 sections at 4-5 microns. Common applications performed on a TMA slide include IHC, and fluorescent *in situ* hybridization (ISH) for both clinical, basic or applied research or drug discovery.



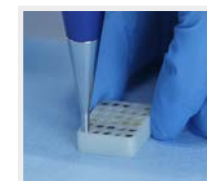
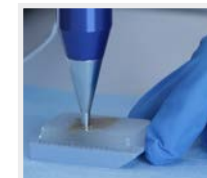
Tissue-Tek® Quick-Ray™ System

The Tissue-Tek Quick-Ray System represents an efficient technique available for producing quality TMAs in less time than traditional methods, at a fraction of the cost.

Simple TMA preparation

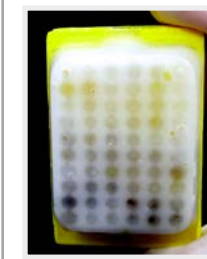
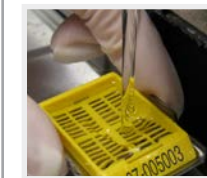
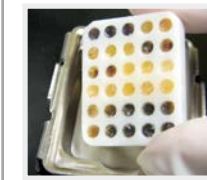
Tissue-Tek Quick-Ray's compact design and versatility makes building a TMA astoundingly simple. The construction of a TMA block can be done on any clean counter. A dedicated space is not required.

How to make a TMA block



1. Select the start position and orient the Recipient Block.
2. Screw the Punch Tip onto the Punch Pen.
3. Turn Punch Pen knob clockwise until appropriate depth is reached.
4. Insert Punch Pen straight down into the donor block, applying even pressure.
5. Pull Punch Pen straight out of donor block.
6. Insert extracted tissue into an open core in the Recipient Block.
7. Repeat steps 4 through 6 until Recipient Block is full.
8. Gently push or tap all tissue cores to ensure evenness for microtomy.

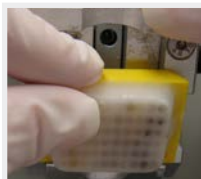
How to embed a TMA block



1. Place completed Recipient Block into Recipient Base Mold.
2. Place Recipient Base Mold in a 60° oven for approximately 30 minutes.
3. After 30 minutes or when block is transparent, remove from oven.
4. Place Tissue-Tek® Uni-Cassette® on top of transparent Recipient Block.
5. Dispense paraffin into Recipient Base Mold; adequately covering the cassette.
6. Place Recipient Base Mold on Cryo plate to solidify the Recipient Block.
7. Once Recipient Block is solidified it is ready for microtomy.



How to section a TMA block



- 1. Place Recipient Block in microtome.
- 2. Face Recipient Block.
- 3. Cut sections to make a ribbon.
- 4. Place ribbon in water bath.
- 5. Pick-up section onto a charged slide.
- 6. Proceed with standard operating procedures for advanced staining.



List of Tissue-Tek Quick-Ray products

Product code	Product name and quantity
8010	Tissue-Tek® Quick-Ray™ System (1 Punch Pen, 4 Recipient Blocks; 1, 2, 3 and 5 mm, 1 Recipient Base Mold, 4 Punch Tips; 1, 2, 3, 5 mm; 1 Punch Guide)
8011	Tissue-Tek® Quick-Ray™ Punch Guide, 1 mm
8012	Tissue-Tek® Quick-Ray™ Punch Tip, 1 mm
8013	Tissue-Tek® Quick-Ray™ Punch Tip, 2 mm
8014	Tissue-Tek® Quick-Ray™ Punch Tip, 3 mm
8015	Tissue-Tek® Quick-Ray™ Punch Tip, 5 mm
8016	Tissue-Tek® Quick-Ray™ Recipient Block, 1 mm
8017	Tissue-Tek® Quick-Ray™ Recipient Block, 2 mm
8018	Tissue-Tek® Quick-Ray™ Recipient Block, 3 mm
8019	Tissue-Tek® Quick-Ray™ Recipient Block, 5 mm
8020	Tissue-Tek® Quick-Ray™ Recipient Base Mold; 3/case



A long tradition of excellence

Known for best-in-class automation and reliability Sakura Finetek remains a privately-held company in business for over 140 years. Sakura Finetek has achieved its success and solidified its reputation by providing timely, ingenious solutions to the real challenges laboratories face on a day-to-day basis.

Our rich history has given us a thorough understanding of technology, quality, reliability, value for money and our customers' requirements. We use this knowledge to passionately develop products that anticipate developments in both technology and market needs.

Sakura Finetek USA, Inc. (SFA) is based in Torrance, California. Functions covered at this facility include sales and marketing, service and technical support, R&D, and manufacturing. SFA is an ISO 13485 certified manufacturer and supplier. As one of the two global manufacturing and R&D sites, SFA develops instruments and reagents into system solutions and secures our innovation with a steady stream of patents.

In addition to supporting the U.S. marketplace, SFA is also responsible for Canada, Mexico, Central and South America and serves these markets with

a network of local distributors.

With the worldwide headquarters in Japan and regional offices in Japan, The Netherlands and the U.S.A., the global strategy of worldwide representation has been fulfilled to guarantee our customers the best service and support.

Our organization is developing, professionalizing and growing continuously, and thus maintaining its position as a trustworthy and valuable partner in histopathology.

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