Simport®
Scientific

The T-Sue™ Microarray Mold Kits

Simport®
Scientific inc.
Since 1975
A family owned Canadian company

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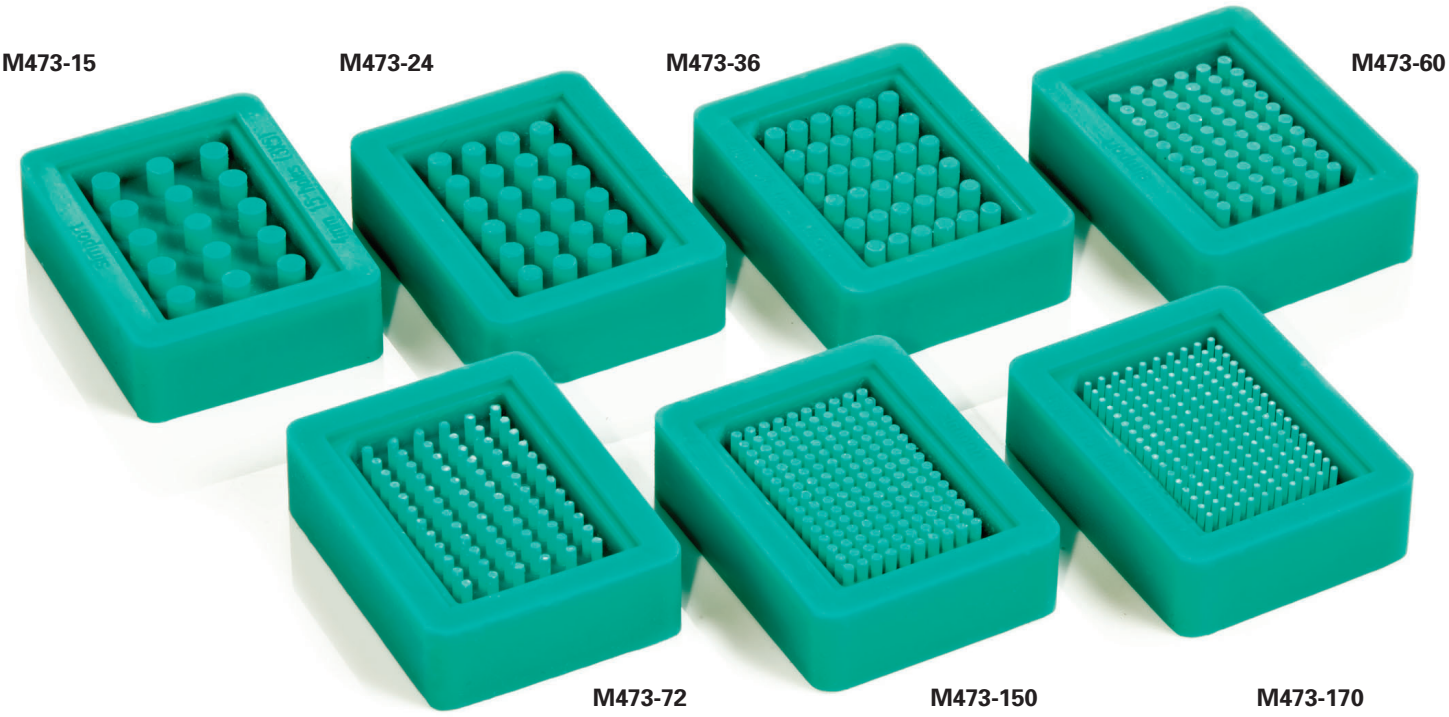
M473

T-Sue™ Microarray Molds

Molds made of silicone

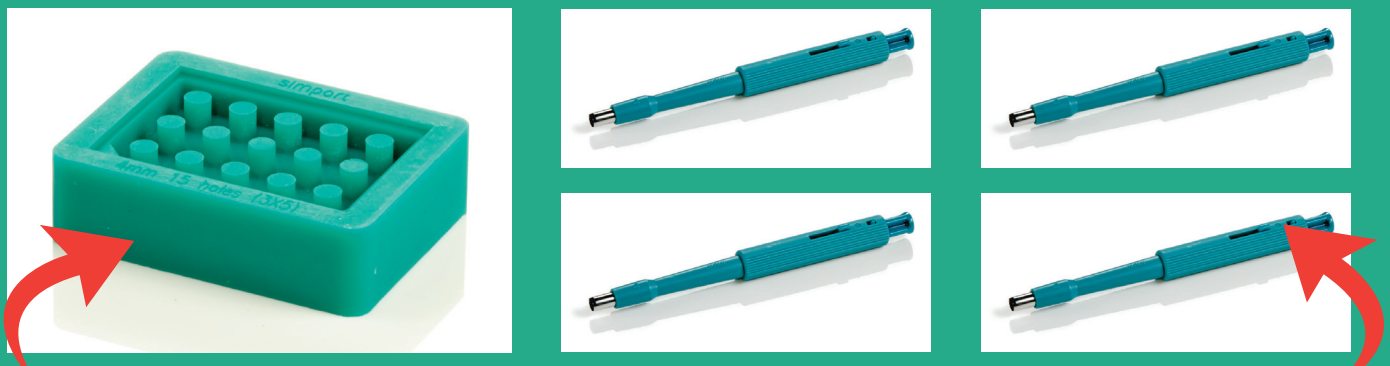


- View many different samples on the same slide
- Process up to 170 specimens onto one slide
- Easily stored in a drawer
- Can be reused dozens of times without losing its flexibility
- Withstands temperatures between -100 °C to +250 °C

Tissue Microarray (TMA) is a technique enabling tissues from many patients to be arrayed on a single slide. The array mold is specifically designed to be simple, easy to use and inexpensive. Tissues can be analyzed in the same conditions enhancing the efficiency of the research.

The Simport® T-Sue™ array molds will allow you to perform TMAs faster while giving excellent results. By using array molds, you can process up to 170 specimens onto one single slide in very little time.

Cat #	Array Mold Cores	Core ø (mm)	Qty/Pk
M473-15	15	4	1
M473-24	24	2	1
M473-36	36	3	1
M473-60	60	2	1
M473-72	72	1.5	1
M473-150	150	1.5	1
M473-170	170	1	1



Each kit includes ONE T-Sue™ array mold and FOUR punch needles with stylet allowing easy removal of tissue cores for insertion. See how-to-use instructions.

M473PC

Precast T-Sue™ Paraffin Blocks

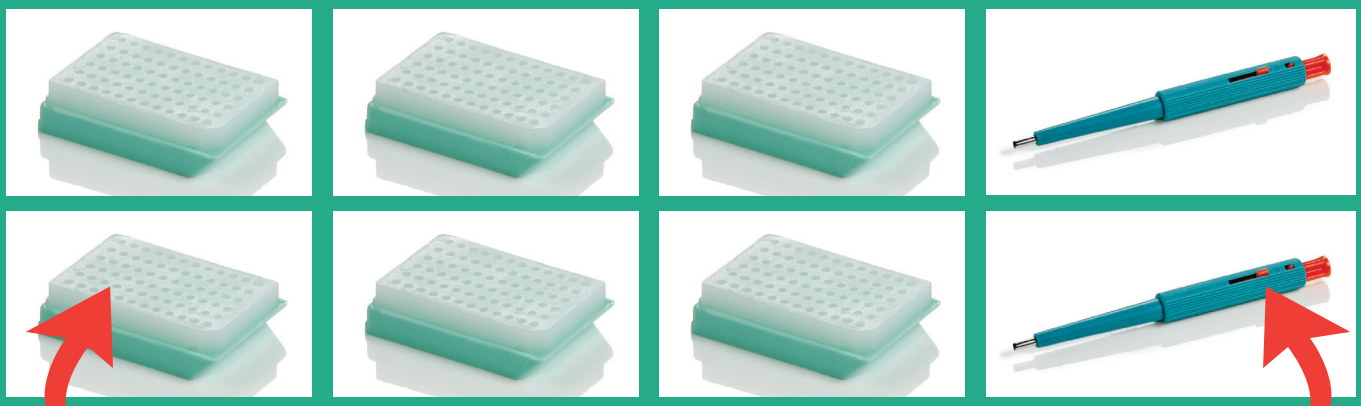
Molds made of paraffin
Cassettes made of acetal

Simport® offers a series of precast T-Sue™ Microarray paraffin blocks for constructing tissue arrays without the need for specialized equipment.

With a T-Sue™ Microarray Paraffin Block Kit, one can construct a tissue array block in minutes, simply by punching the donor tissue cores and inserting them into the pre-made paraffin recipient block. It's easy, fast and no specific technical training or experience is needed.

It is the easiest, most convenient and less expensive kit available for constructing paraffin tissue microarrays. How-to-use Instructions are included. When using a Precast T-Sue™ Microarray Paraffin Block Kit, follow instructions, starting at no. 8.

Cat #	Array Mold Cores	Core ø (mm)	Qty/Pk
M473-15PC	15	4	6
M473-24PC	24	2	6
M473-36PC	36	3	6
M473-60PC	60	2	6
M473-72PC	72	1.5	6
M473-150PC	150	1.5	6
M473-170PC	170	1	6



Each T-Sue™ Microarray Paraffin Block Kit contains SIX precast paraffin recipient blocks and TWO punch needles with stylet.

M473P

T-Sue™ Punch Needles

A single punch needle can be used for filling an entire recipient tissue microarray paraffin block. Inside the punch needle, a stylet, used to remove tissue cores, is supplied as an integral part of each T-Sue™ punch needle. This internal stylet operates similarly to a retractable pen, providing the user with effortless ejection of core specimens.
Punch needles are available in five sizes clearly indicated on the handle. Punches are packed in safe, tamper-evident zip-lock resealable bags.

Cat #	Punch Needles ø (mm)	Color	Qty/Pk
M473-P10MA	1	Magenta	4
M473-P15Y	1.5	Yellow	4
M473-P20R	2	Red	4
M473-P30P	3	Pink	4
M473-P40B	4	Blue	4

ANATOMY OF A T-SUE™ MICROARRAY MOLD

- Molds made of silicone
- Choice of seven microarray molds offering 15 to 170 cores
- Temperature resistant up to +250 °C
- Can be reused hundreds of times

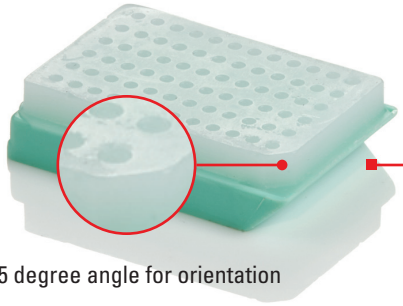
One inside wall corner at 45 degree angle, facilitating orientation.

Flexible for easy removal of recipient block

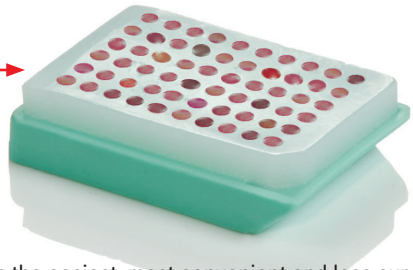
Easy positioning of cassette

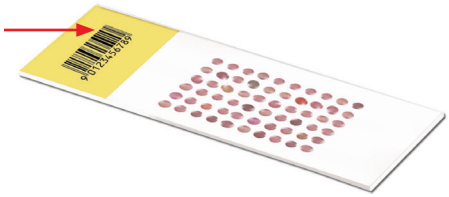
BENEFITS OF A PRECAST T-SUE™ PARAFFIN RECIPIENT BLOCK

- No special training or experience needed
- Ready to accept cores from donor block
- Choice of seven paraffin blocks holding between 15 and 170 specimens
- Support cassette is permanently bonded to block
- Consistent core diameter



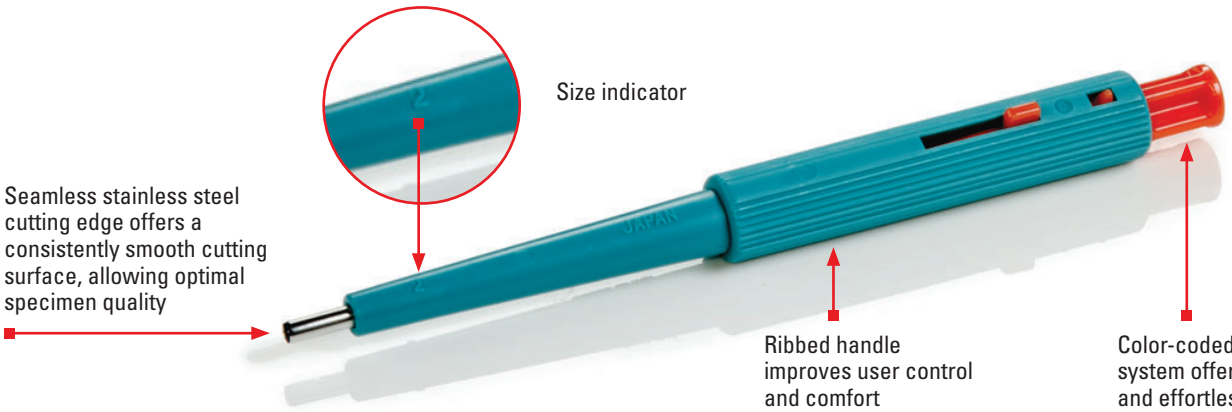
45 degree angle for orientation





It is the easiest, most convenient and less expensive kit available for constructing paraffin tissue microarrays.

ANATOMY OF A T-SUE™ PUNCH NEEDLE



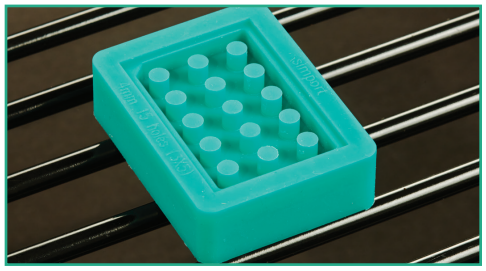
Size indicator

Seamless stainless steel cutting edge offers a consistently smooth cutting surface, allowing optimal specimen quality

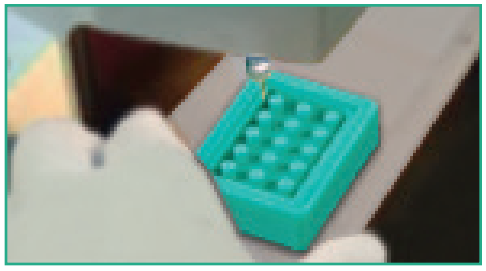
Ribbed handle improves user control and comfort

Color-coded internal plunger system offers a convenient and effortless user controlled ejection of cores

The Simport T-Sue™ Microarray Mold Kits instruction for use



1 Place the T-Sue™ Array mold in an oven for 30 minutes at 70 °C to 80 °C.



2 Slowly dispense liquid paraffin (60 °C to 65 °C) until the top of core rods are fully submerged. If bubbles are formed, remove them with a pair of heated forceps.
For recommended paraffin, most histologists prefer using Paraplast X-TRA®.
Others use Formula "R"™ Paraffin or Blue Ribbon™ from Leica Biosystems. These sticky paraffins will help cores adhere better then harder ones in the recipient block.

3 Orientate an embedding cassette and place it on the mold.

Inside wall at 45 degree angle, facilitating mold orientation.

4 Fill embedding cassette with paraffin.

5 Cool at room temperature or at about 4 °C for 30 to 60 minutes.
Warning: At the lower temperature, cracks may appear in the block.

6 Slowly separate the T-Sue™ Array mold from the embedding cassette.

7 Trim paraffin around the edges of the recipient block.

8 Extract the marked tissue from the donor block by using the appropriate T-Sue™ punch needle.

a. Place the donor block on a horizontal and flat surface.
b. Hold the T-Sue™ punch needle in your hand perpendicularly to the marked position of the donor block.
c. Slowly insert the T-Sue™ punch needle into the donor block at the proper depth of 5mm. Don't insert it too quickly and too deep to prevent damaging the donor block and the T-Sue™ punch needle.

9 By slowly pushing on the T-Sue™ punch needle plunger, deliver the extracted tissue into the corresponding hole of the recipient block. Then, gently push in all the tissue cores to ensure evenness for microtomy.

10 Place the recipient block on a glass slide (facing down) and incubate the block at 37 °C to 45 °C for 3 hours up to overnight. The delivered cores will adhere to their respective holes in the recipient block. Do not pull the slide from the TMA block.

11 With the recipient block still warm and tacky, heat another slide in an oven to around 70 °C for approximately 10 minutes. Then, place it under the slide that is already stuck to the Array block. The Array block surface should quickly turn to liquid. Move the two slides around on the Array block to push any surface air bubbles away and to flatten the Array block surface.

12 Now, remove the second slide and place Array block with the original slide (slide down) on for 10 minutes to cool down. Once Array block is at room temperature, place it with the slide on an ice tray (no water) to cool for 20 minutes. ~~Should~~ remove easily from Array block which will now be ready for cutting.

NOTE:
The T-Sue™ Punch Needles are not intended for use directly on patients. For lab/research purposes only.
If some of the mold cores are not needed, simply fill unwanted holes in the paraffin Array block with blank paraffin cores.
If the Array mold has cracked or split, you can still use it by placing a rubber band or tape around it. This will keep the Array mold together when paraffin is poured into it.

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