LUMEA
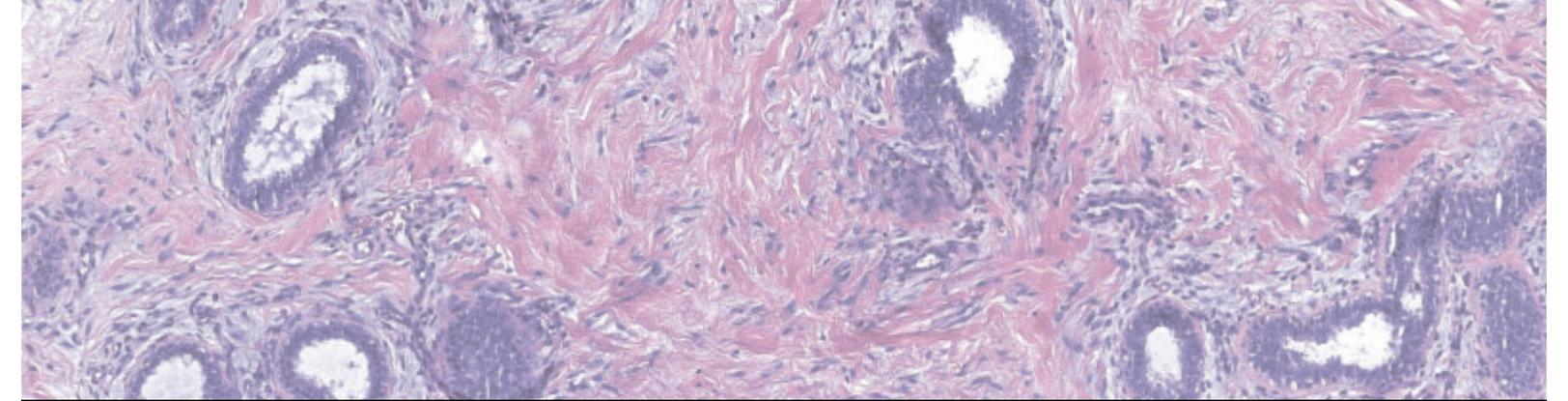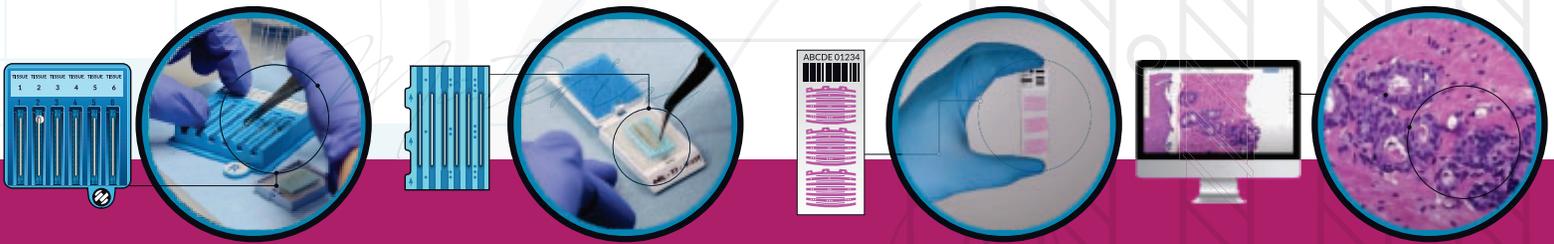
Where tissue meets tech

LUMEA

Innovative, standardized pathology workflow solutions
for beyond-standard results

FDA Registered
Products

36+ International &
US Patents
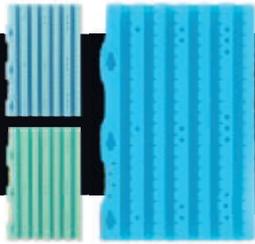
Top 3 Digital
Pathology Systems

2024 Winner
Science & Technology

Used Globally on
5 Continents

CE

BxChip®
Sectionable matrix for histology

The BxChip® is a patented Sectionable Matrix* designed to hold up multiple biopsy core specimens throughout lab processing. Labs using the BxChip® have experienced significant benefits, including:
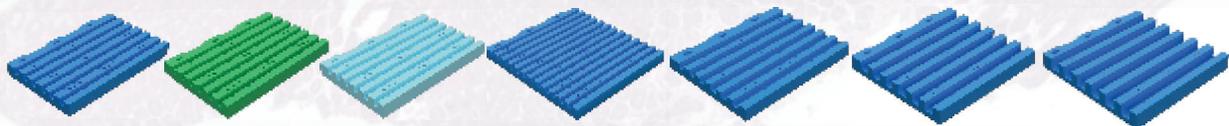
- **14.5% average increase in histologic tissue surface area on the glass slide**
- **31.8% average increase in biopsy core length****
- **18.7% average increase in the overall cancer detection rate!*****
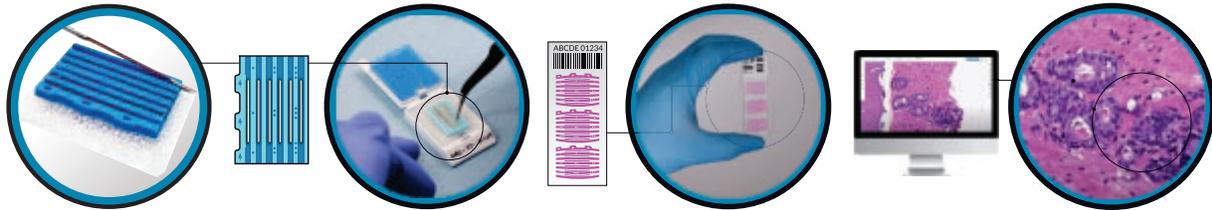
- **78% reduction in grossing time**
- **83% reduction in embedding time**
- **76% decrease in total lab time per prostate case**

BENEFITS

Multiplexing six cores on one slide within the BxChip® enables labs to do additional stains at significantly lower costs. Pathologists using the BxChip® have experienced reduced diagnostic times per case, increased biopsy core lenght by up to 31.8%, and improved cancer detection rates by as much as 18.79%.
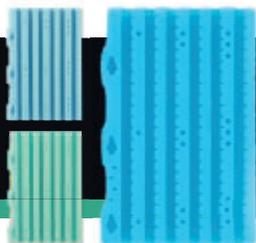

*The matrix material does not interfere with IHC, ISH, FISH, NGS, or other molecular testing methods
**https://lumeadigital.com/bxchip-increased-tissue-yield-and-prostate-cancer-detection
***https://lumeadigital.com/increase-prostate-cancer-detection
***https://www.auajournals.org/doi/full/10.1016/j.juro.2016.02.2584

BxChip®

Sectionable matrix for histology

CE

SALINE SINGLE PACKED

Options available: 6 Lane, 12 Lane

Item	Gauge	Catalog #	Lanes	Description	Quantity
	G18	BxC 001s.b	6	BLUE Sterile chip	1
	G18	BxC 001s.g	6	GREEN Sterile chip	1
	G18	BxC 001s.t	6	TEAL Sterile chip	1
	G18	BxC 012s.b	12	BLUE Sterile chip	1
	G16	BxC 300s.b	6	BLUE Sterile chip	1
	G14	BxC 100s.b	6	BLUE Sterile chip	1
	G12	BxC 200s.b	6	BLUE Sterile chip	1

BxChip®
Sectionable matrix for histology

CE
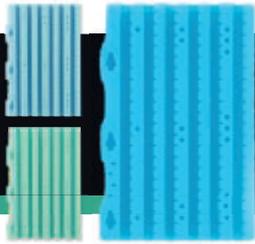
FORMALIN BULK-CONTAINER

Options available: 6 Lane, 12 Lane

Item	Gauge	Catalog #	Lanes	Description	Quantity
	G18	BxC 001.b50	6	BLUE NON-Sterile chip	50
	G18	BxC 012.b50	12	BLUE NON-Sterile chip	50
	G16	BxC 300.b50	6	BLUE NON-Sterile chip	50
	G14	BxC 100.b50	6	BLUE NON-Sterile chip	50
	G12	BxC 200.b50	6	BLUE NON-Sterile chip	50
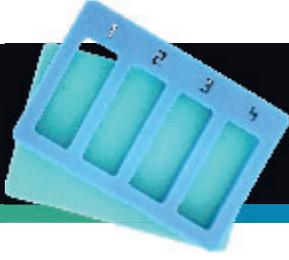
BxFrame®

Sectionable matrix for histology
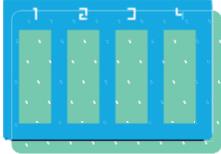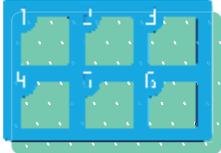*For biopsies and tissue explants*

CE

FORMALIN BULK-CONTAINER

BxFrame® for histological standard cassettes

The BxFrame® is a sectionable planar matrix* made from a biomimetic organic polymer that allows the creation of tissue microarrays for routine clinical diagnostics during grossing.

Tissue samples can be loaded into the site - specific receptacles of the BxFrame® either in the Operating Room or the Pathology Laboratory. It ensures the preservation of spatial orientation for the tissue samples within the paraffin block and on the resulting microscope slides.

*The matrix material does not interfere with IHC, ISH, FISH, NGS, or other molecular testing methods

Item	Catalog #	Cavity	L / W / H	Description	Quantity
	BxFR-5.2.50	4x(4.3x2.3)	27.9x19x2	BLUE NON-Sterile frame	50
	BxFR-6.2.50	6x(6.3X6.3)	27.9x19x2	BLUE NON-Sterile frame	50
	BxFG-5.2.50	12x(5x2)	12x14x2	BLUE NON-Sterile frame	50

BxFrame® - p

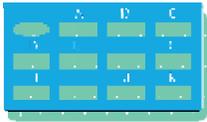*Sectionable matrix for histology*
For biopsies and tissue explants

CE

FORMALIN BULK-CONTAINER

BxFrame® -p for Sakura Paraform® cassettes

The BxFrame® is a sectionable planar matrix* made from a biomimetic organic polymer that allows the creation of tissue microarrays for routine clinical diagnostics during grossing.

Tissue samples can be loaded into the site - specific receptacles of the BxFrame® either in the Operating Room or the Pathology Laboratory. It ensures the preservation of spatial orientation for the tissue samples within the paraffin block and on the resulting microscope slides.

*The matrix material does not interfere with IHC, ISH, FISH, NGS, or other molecular testing methods

Item	Catalog #	Cavity	L / W / H	Description	Quantity
	BxFp-2/1.3/100	3x(4x8.7)	20.5x14.5x1.3	BLUE NON-Sterile frame	100
	BxFp-3/1.3/100	6x(4.5x4.5)	20.5x14.5x1.3	BLUE NON-Sterile frame	100
	BxFp-11/1.3/100	16x(5x5)	30x22.6x1.3	BLUE NON-Sterile frame	100

Compatible with
Tissue -Tek® Cat#:7020

Compatible with
Tissue -Tek® Cat#:7021

BxQuick Cool™
Color-Changing Soft Tamper
for quick-cooling paraffin blocks

Options available: *Regular, Large*

The BxQuick Cool™ is a hand-held device used to cool paraffin blocks during microtomy. It's made from a soft rubber/metal composite with improved thermal transfer.

BENEFITS

The user can (re)cool the paraffin block in order to obtain serial sections without removing the block from the microtome.

The surface of the paraffin block cools quickly (10 - 15 seconds).

Lumea BxQuick Cool™ changes color as it cools, so you know when it's ready-it turns blue below 10°C (the recommended temperature for maximum efficiency).

Item	Catalog #	L / W / H	Description	Quantity
	BxSOFTt-C R	33x14x22	Regular soft tamper, 25g	1
	BxSOFTt-C L	77x54x22	Large soft tamper, 60g	1

BxSoft Tamper™

Soft tamping device for casting paraffin blocks

Options available: XS (Yellow), S (Green), M (Red), L (Fuchsia), and XL (Blue)

The soft tamper is intended for flattening, aligning in the same plane, and maintaining the position of the paraffinated tissue sample when cooling the paraffin blocks on the embedding station. The tamper removes the need to apply significant force and reduces the risk of breaking fragile biological specimens.

Lumea BxSoft Tamper™ is made from a silicone elastomer composite with improved thermal transfer and high latent heat.

The handle is detachable and self - centering on the soft tamper (via permanent magnets).

Item	Catalog #	L / W / H	Description	Quantity
	BxST-XL	62x48x12	Soft tamper Blue*, 50g	1
	BxST-L	32x20x12	Soft tamper Fuchsia*, 12g	1
	BxST-M	22x20x12	Soft tamper Red*, 9g	1
	BxST-S	18x18x12	Soft tamper Green*, 6.8g	1
	BxST-SX	10x10x12	Soft tamper Yellow*, 2.5g	1
	BxST-kit1	113x113x15	1 Set of tampers, 1 large holder 1 handle for L,M,S, 1 handle for XS, 370g	1
	BxST-kit2	133x36x18	3 XS tampers, 1 small holder, 1 handle for XS, 145g	1
	BxSH-H-R	22 Ø x 33	Handle for L, M, S	1
	BxSH-H-XS	13.8 Ø x 39	Handle for XS	1
	BxSH-H-XL	60x44x42	Handle for XL	1

Note: Handles can be used with multiple soft tampers and must be ordered separately.
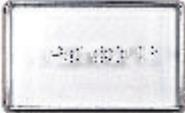
BxCool®

Cryoplate for controlled cooling of paraffin tissue blocks

This innovative cold plate is compact, vibration-free, precise, economical, and easy to maintain and clean.

The temperature control system guarantees optimal cooling for sectioning histological blocks. Additionally, the plastic screen on the cold surface eliminates direct contact between the blocks and condensed water to prevent swelling - a first for histology cold plates.

BENEFITS

High-precision cooling with no risk of overcooling, eliminates the need to re-warm paraffin blocks, while ensuring zero moisture artefacts. Operating quietly at less than 40 dB, it's perfect for any lab environment. Portable and lightweight at just 1.2 kg, with a compact footprint of 21×16×12 cm, it integrates seamlessly into your workspace. Offering a temperature range of –5 °C to +10 °C, it supports universal power input (110–240 V, 50–60 Hz) and runs efficiently on low voltage (12 V DC).

Item	Catalog #	L / W / H	Description	Quantity
	BxCOOL!	214x157x123	BxCOOL! (including: lid, spacer, 3 anti-moisture screens, dust filter)	1
	BxCOOL-L	202x127x22	Spare transparent lid	1
	BxCOOL-I	220x125x10	Optional spacer for rising the lid	1
	BxCOOL-S	175x100x0.5	Spare anti-moisture screen (3 pcs/pack)	1
	BxCOOL-F	123x123x10	Spare dust filter	1

EUROPE PRODUCT CATALOG