



**MILESTONE**

H E L P I N G  
P A T I E N T S



Innovative solutions  
for reducing  
biospecimens  
pre-analytical  
variability

Collection

Transfer

Grossing

Storage

Fixation

Decal

Processing

Milestone Products Portfolio

# Milestone evidence based "chain of custody" for reducing the impact of pre-

## Collection

### TissueSAFE

Vacuum sealing of fresh biospecimens in plastic bags. Elimination of formalin from the surgery theatre.



## Transfer

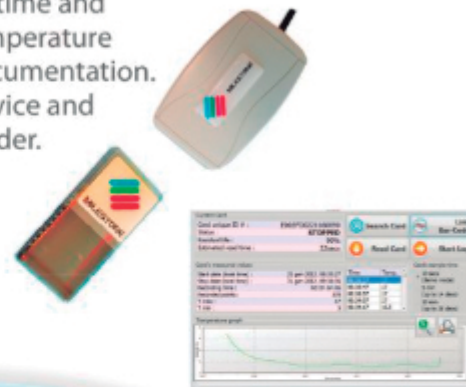
### T-Cart

Storage and transfer of specimens at 4°C with monitoring of time/temperature.



For car transfer

ID, time and temperature documentation. Device and reader.



## Grossing

### MacroPATH pro/lean

Library of macro digital images of specimen.



### LeanSTATION Bx

The new macro digital workstation for small biopsies.



### ProCUT

Slicing device for fresh or fixed tissues.



### CheckLITE

Laser based checking of biospecimens thickness.



## Storage

### SealSAFE

Vacuum resealing (in the same transfer bag) of specimens to be stored, with a preset ratio specimen weight/formalin.



Storage bag with preset specimen weight/formalin ratio and with specimen data label

The basic technologies used in pre-analytical processes have been mature for a long time and have lagged behind improvements in analytical processes. Control of an optimal histological practice must start at the surgery/ theatre level. For this reason the development team at Milestone is applying the rigorous mind-set of analytical chemistry to standardize the pre-analytical step with the goal of reducing its variability.



## Fixation

**FixSTATION 1R**  
Fixation system with agitation, and time control.



**FixCONTROL**  
Fixation system with agitation, temperature and time control.



**FixCONTROL W.E.**  
For **over-the weekend** operation. Fixation for a preset time and subsequent transfer of rack in holding solution.



**ColdFIX**  
Cold fixation in formalin and ethanol at 4°C for enhanced recovery of nucleic acids.



## Decalcification

**BoneSTATION**  
Shorter decalcification time protocols. Fixation plus decalcification with agitation, time and temperature control.



**DecalMATE**  
Fully automatic fixation plus decalcification with agitation at preset time and temperature.



**MOL-Decal 10**  
An innovative decalcifying agent for optimized molecular biology results.



*At this time pre-analytical variables are beyond the control of the laboratory. Tissue fixation is critical but exposure to fixative prior to accessioning in the laboratory cannot be controlled.*

## Tissue processing

### HYBRID/DUAL RETORT AUTOMATED

**LOGOS**  
Rapid microwave tissueprocessor. 210/300 cassettes. Up to 10 mm.



**LOGOS J**  
Rapid microwave tissueprocessor. 48 cassettes. 3 mm.



### BATCH FULLY AUTOMATED

**PATHOS DELTA**  
Rapid microwave tissueprocessor. 210/300 cassettes. 5 mm.



*Optimization, standardization and documentation of each phase of the FFPE manufacturing process is the pre-requisite for accurate and consistent analytical results.*



## Tissue processing

### SEMI-AUTOMATED DUAL RETORT

#### HISTOS

Rapid microwave tissue processor.  
110 cassettes, 3-5 mm.



### MANUAL

#### KOS

Rapid microwave tissue processor.  
45 cassettes, 3mm.



## Milestone's waves of innovation

From the operating room to rapid tissue processing



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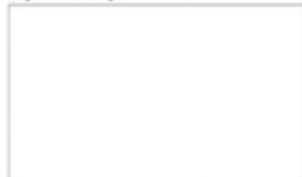
HELPING  
PATIENTS

**MILESTONE Srl** - Via Fatebenefratelli, 1/5 - 24010 Sorisole (BG) - Italy  
Tel: +39 035 4128264 - Fax: +39 035 575498  
[www.milestonemedsrl.com](http://www.milestonemedsrl.com) - email: [medical@milestonesrl.com](mailto:medical@milestonesrl.com)

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**MILESTONE MEDICAL TECHNOLOGIES, INC.**  
6475 Technology Avenue, Suite F, Kalamazoo, MI 49009 - USA  
Tel: 269-488-4950 - Toll-free: 866-995-5300 - Fax: 269-488-4949  
[www.milestonemed.com](http://www.milestonemed.com) - email: [info@milestonemed.com](mailto:info@milestonemed.com)

In your country:



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