



MILESTONE

HELPING
PATIENTS



THE SAFE CHOICE FOR BIOSPECIMEN COLLECTION



TissueSAFE plus
Vacuum Sealing System

RELIABLE FORMALIN-FREE COLLECTION

Stringent regulations requiring operators to minimize their exposure to formalin, coupled with the need to preserve biological samples in a fresh state for specific analyses, led to the development of TissueSAFE plus. **This innovative, patented vacuum system preserves tissues in their natural state, without the use of fixatives, within dedicated bags, ensuring the complete safety of the operator.** TissueSAFE plus also provides a thorough documentation of the collection process and enhances traceability during the transfer of biospecimens from the Operating Room (OR) to the Anatomy Pathology (AP) lab.



PRESERVE TISSUES IN THEIR FRESH CONDITIONS

| ZERO FORMALIN EXPOSURE

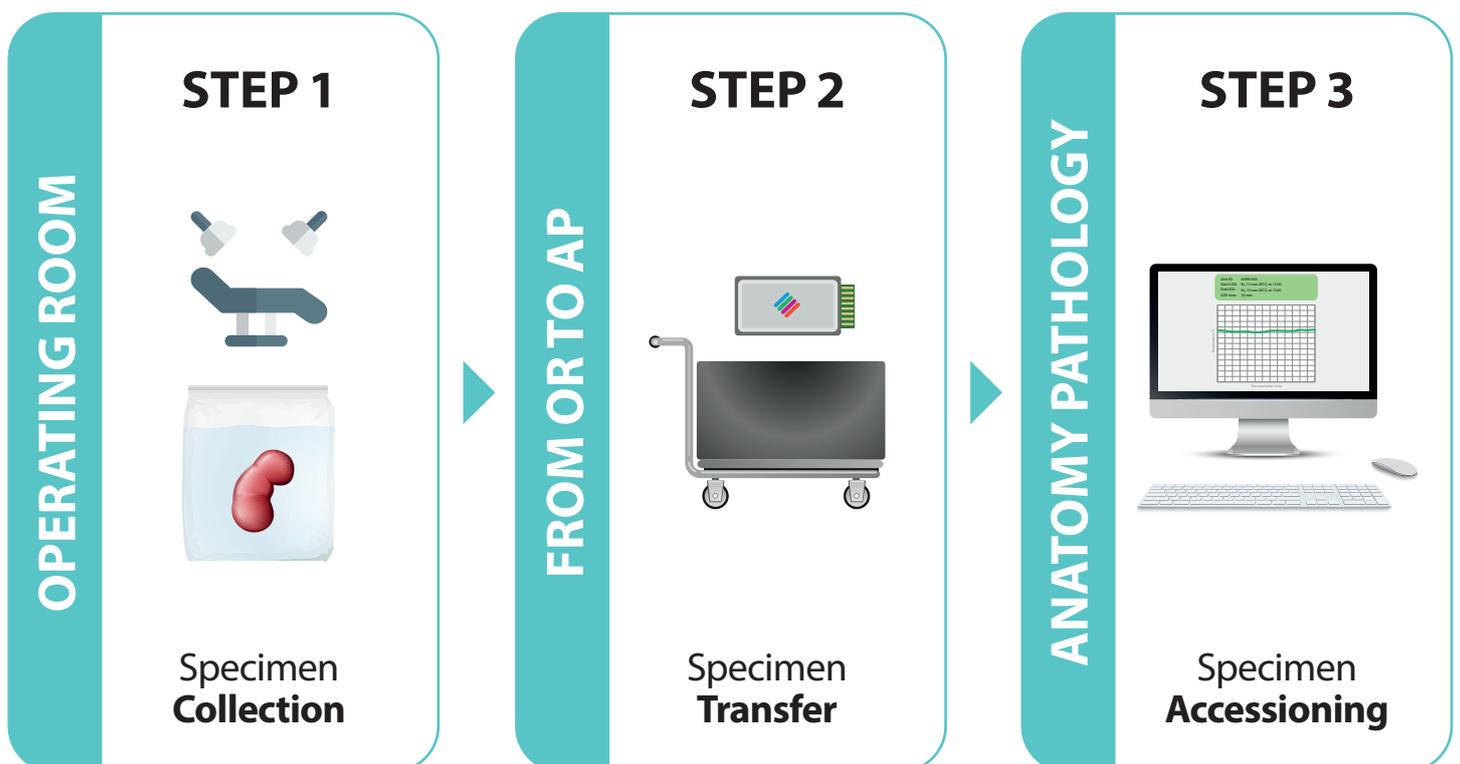
In today's laboratories, formalin is still widely used as the standard fixative for collecting and storing biospecimens, despite being a well-known carcinogen. Laboratory personnel face the risk of high levels of exposure to formalin fumes during their daily tasks. **TissueSAFE plus has been designed to eliminate the operator's exposure to formalin by allowing users to collect biospecimens under vacuum, preserving the tissue in its "fresh" conditions.**

| CONTROLLED FIXATION

Vacuum sealing removes air from the bags, creating a **controlled environment that minimizes the risk of external factors which may compromise the fixation process.** This allows operators to perform fixation under ideal conditions, enhancing the preservation and quality of tissue samples, and ensuring reliable histological examinations, molecular studies and subsequent analyses.

| DOCUMENTED TRANSFERS

At the end of the vacuum sealing process, the **TissueSAFE plus prints a label with the most relevant information** to have a complete documentation. A dedicated Data Logger Card can be activated and placed into the transfer box at the start of the shift to **continuously monitor and document the temperature and transfer time** of the tissue from the OR to the AP lab. During accessioning, the technician can download all the relevant specimen data from the Data Logger Card to verify that the sample has been properly transferred.



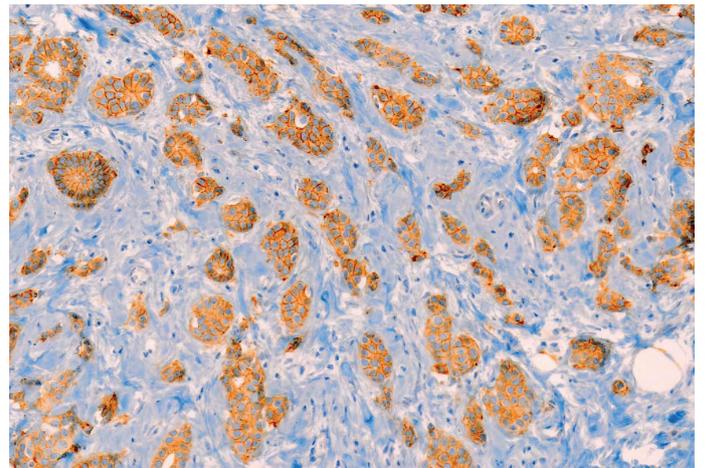
| MAXIMIZED ARCHIVING

TissueSAFE plus allows the collection of specimens in dedicated vacuum-sealed bags made of durable plastic. Unlike typical rigid buckets, **these bags reduce storage space by up to 80% at the accessioning stage as well as during archiving.** The TissueSAFE plus bags are available in different versions to accommodate any type of specimen. They can also be reused for the same sample, thanks to three pre-set sealing areas.



| OPTIMAL TISSUE PRESERVATION

The vacuum preservation of the fresh sample, which maintains a storage temperature of 4°C during the transfer, **ensures an optimal tissue preservation for up to 48-72 hours.** Recent studies have indeed demonstrated that cellular structures remain intact, with no occurrences of shrinkage or expansion, ensuring reliable results in specific applications such as molecular biology and biobanking.



*Example of immunohistochemical staining for HER2 in breast tumor cells**

| MILEWATCH INTEGRATION

TissueSAFE plus can be integrated with MileWATCH, the advanced 24/7 Monitoring and Tracking System from OR to AP. **MileWATCH stores all collection details** (case ID, bag ID, institute, user, data, time) **and makes them available to AP laboratories.**



** Source: "Under-vacuum preservation of tissues to be transferred to pathology labs" by G. Bussolati, Department of Biomedical Sciences and Oncology, University of Turin, Turin, Italy.*



ZERO FORMALIN EXPOSURE

CONTROLLED FIXATION

DOCUMENTED TRANSFERS

MAXIMIZED ARCHIVING

OPTIMAL TISSUE PRESERVATION

| MILESTONE'S SOLUTIONS FOR BIOSPECIMEN COLLECTION



UltraSAFE

Automated Formalin
Dispensing System



SealSAFE

Fixative Filling and
Vacuum Sealing System

| MILESTONE'S SOLUTIONS FOR BIOSPECIMEN TRACEABILITY



Data Logger Card

Time and Temperature
Monitoring System



MileWATCH

24/7 Monitoring
and Tracking System

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Milestone is a company headquartered in Northern Italy and was founded in 1988 as a corporation specializing in advanced microwave instrumentation for analytical and organic chemistry labs. As the technology leader in pre-analytical instrumentation, Milestone supports a worldwide installed base of over 25.000 systems. In 1994, Milestone established a separate Medical Division to expand our expertise in the crucial pre-analytical phase to the world of histopathology. We pioneered the first microwave rapid tissue processor for same-day diagnosis and the first macro-digital system to enhance the grossing step. Today, our rapid tissue processors, macro-digital imaging systems, and pre-analytical instrumentation are used every day in the most renowned clinical and research laboratories around the world. But we never stop. We continue to lead the industry with constant innovation and improvement. Driven by the leading principle we live by, Helping patients.

Specifications are subject to change without notice

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