

# Instructions for Use

## Zinc Formalin, Buffered



CATALOG NUMBER	DESCRIPTION	UNIT OF MEASUREMENT
BFZ0507	20mL buffered zinc formalin prefilled container	96 per case, in histopak carriers
BFZ0115	40mL buffered zinc formalin prefilled container	960 per case, in histopak carriers
BFZ0230	60mL buffered zinc formalin prefilled container	96 per case, in histopak carriers
BFZ0460	120mL buffered zinc formalin prefilled container	96 per case, in histopak carriers

### INTENDED USE

Buffered Zinc Formalin provides excellent morphological preservative of nuclear and cytoplasmic tissue components. Zinc formalin fixative can replace the commonly used 10% Neutral Buffered Formalin solution for routine tissue and immunohistochemical procedures. This fixative is compatible with histochemical, immunohistochemical, and special stains.

\*Per CAP guidelines, if Buffered Zinc Formalin is used as the fixative in HER2 and ER Breast cancer predictive marker testing, the laboratory must perform a validation study showing that HER2 and ER results are concordant with results from formalin-fixed tissues.

### APPLICATIONS

The zinc chloride component in the formulation of Buffered Zinc Formalin increases the rigidity of cellular components to withstand subsequent processing, sectioning, and staining procedures. Tissues initially fixed using 10% Neutral Buffered Formalin solution may be post-fixed using Buffered Zinc Formalin. Complete fixation can be accomplished in 4-6 hours instead of the 12 hours or more required with formalin.

### STORAGE AND STABILITY

Storage: Room temperature  
Refer to SDS for details

### SPECIMEN PREPARATION

Place tissue specimens directly into ready to use Buffered Zinc Formalin immediately after removal from the body. Prompt fixation will prevent autolysis, putrefaction, and other undesirable cellular changes.

When grossing, tissue specimens should be no thicker than 5 mm to facilitate optimal fixation. Container should be large enough to accommodate the specimen and to allow a ratio of 15 to 20 times the volume of Buffered Zinc Formalin to the volume of the specimen.

### PROCEDURE

- 1 Place the required patient identification information on the prefilled container, making sure to use two patient identifiers for positive patient identification.
- 2 Place the tissue sample immediately into the appropriately sized and labeled Buffered Zinc Formalin container and tightly close with the provided lid. If container is a StatClick™ Vial, an audible "click" will be heard when the lid is tightened to the appropriate tightness.
- 3 The specimen container holding the tissue specimen should then be placed into a biohazard transport bag or transport container, along with any paperwork for transporting back to the histology laboratory for further processing.

- 4 Tissue specimens can be stored in containers filled with Buffered Zinc Formalin indefinitely. Specimens will not over-harden or be prone to excessive shrinkage from prolonged exposure or storage.

### ADDITIONAL INFORMATION


Buffered Zinc Formalin is commonly used in the grossing room as a holding solution until the tissue specimens are ready to be placed into the tissue processor. Holding solution should be changed daily.

Buffered Zinc Formalin may be used as a post fixative following formalin fixation of other fixatives. Two to three hours of post fixation is adequate in most cases.

When used in the tissue processor in place of 10% Neutral Buffered Formalin, Buffered Zinc Formalin should be placed in the first two stations of tissue processor and set for at least 1 hour in each station to ensure complete fixation.

Follow manufacturer's recommendations for flushing and maintenance procedures of tissue processors.

Please contact [tech@statlab.com](mailto:tech@statlab.com) with any additional questions.

 StatLab Medical Products  
2090 Commerce Drive, McKinney, TX 75069  
StatLab.com Phone: +1 800-442-3573

