



## **MASTERTECH BULLETIN**

*(Revised 03/08/18)*

# **10% ZINC FORMALIN**

## **10% Buffered Formalin with Zinc Chloride**

**SUPERIOR MORPHOLOGY AND ANTIGEN DEMONSTRATION**

### **10% ZINC FORMALIN, THE PRODUCT AND ITS PURPOSE:**

Using metal salts in tissue fixatives to augment penetration, cellular morphology, and to assist in fixation, has been scientifically chronicled for over a hundred years. Mercuric Chloride, the traditional metal salt used in tissue fixatives, is still in use today. **10% Zinc Formalin** is an environmentally safer tissue fixative incorporating Zinc Chloride as the metallic salt. Zinc Chloride acts on carboxyl groups to alter protein charges, while Formalin induces a cross-linking methylene bridge which results in an excellent tissue fixative for virtually all tissue types. Cytomorphology of tissues fixed in **10% Zinc Formalin** is comparable to the cytomorphology of tissues fixed in B\*5 Fixative with Mercuric Chloride.

### **10% ZINC FORMALIN, INSTRUCTIONS FOR USE:**

**10% Zinc Formalin** is a primary fixative that can be used in place of 10% Formalin. No deviations from normal fixation schedules are necessary. **10% Zinc Formalin** can be used in all tissue processors. If you are using a Vacuum Infiltration Tissue Processor we recommend wiping down the retort with a 0.1% Hydrochloric Acid solution followed by two hot water flushes daily. Twice a month flush the processor lines with a 0.1% Hydrochloric Acid solution followed by two hot water flushes.

### **10% ZINC FORMALIN, STABILITY:**

Shelf life of **10% Zinc Formalin** is 2 years.

### **10% ZINC FORMALIN, PRECAUTIONS:**

**10% Zinc Formalin** is a non-flammable aqueous tissue fixative. When handling any formaldehyde based tissue fixative, wear personal protection equipment, including lab coat, goggles, and gloves. Always use mechanical ventilation.

### **10% ZINC FORMALIN, DISPOSAL:**

Consult your local wastewater authority for applicable regulations concerning proper waste disposal.

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