

### INTENDED USE

Properly diluted CB Formalin is 10% aqueous, neutral, phosphate-buffered formalin (NBF). It is used as a histological fixative.

### PRODUCT SUMMARY

Formaldehyde fixation is a two-step process. First, formaldehyde forms addition products with macromolecules. Second, the formaldehyde adduct crosslinks the macromolecules, firming the tissue. While necessary for complete fixation, the crosslinks (methylene bridges) can block access to antigenic epitopes in immunohistochemistry procedures. Inadequate formalin fixation times can produce the formalin artifact described as nuclear bubbling, in which chromatin patterns are disrupted.

### INGREDIENTS

Formaldehyde, phosphate buffer, methanol (inherent to formaldehyde)

### WARNING

**DANGER. CONTAINS FORMALDEHYDE.** May cause cancer. Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye damage. May cause sensitization by inhalation or by skin contact. Causes skin, eye, and respiratory irritation. Do not breathe vapors. Do not get on skin.

Methanol Warning:

**DANGER. POISON.** ☠️ VAPOR HARMFUL. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. CANNOT BE MADE NONPOISONOUS.

For In Vitro Diagnostic Use.

### STORAGE

Store at room temperature.

Avoid freezing; product is not harmed but container may break. Extreme cold may cause precipitation of buffer salts; dilution with deionized/distilled water will re-dissolve buffer salts.

Keep containers tightly closed when not in use.

### DIRECTIONS FOR USE

1. CB Formalin must be diluted before use. To make 5 gallons:
  - a. Dilute 1 gallon of CB Formalin in 4.0 gallons of deionized/distilled water.
  - b. Mix well.
2. Mixing and dispensing of CB Formalin will be easier with a graduated five-gallon plastic carboy equipped with a spigot (ANATECH Catalog #003).
3. Do not use alcohol to dilute CB Formalin. If alcoholic formalin is required, use CBA Formalin (ANATECH Catalog #121).
4. Properly diluted CB Formalin is equivalent to NBF ready to use (ANATECH Catalog #135).

### 5. Processing recommendations:

- a. Fix tissues for a total of 6-8 hours for highest quality nuclear detail.
- b. Place diluted CB Formalin in the first two stations on the processor.
- c. Follow CB Formalin with either 70% or 80% alcohol to prevent precipitation of phosphate buffer.
- d. CBA Formalin (ANATECH Catalog #121) is buffered alcoholic formalin and is strongly recommended as a secondary fixative on the processor when fixation time is short.

### DISPOSAL

1. Contact a licensed professional waste disposal service to dispose of this material.
2. Dispose of contents/containers in accordance with governmental regulations.
3. Proper waste disposal is the generator's responsibility.

### SAFETY DATA SHEETS (SDS)

SDS are available online at [www.anatechltdusa.com](http://www.anatechltdusa.com).

### ORDERING INFORMATION FOR CB FORMALIN

<u>Cat#</u>	<u>Packaging</u>
111	1 gallon