Fixative

Intended Use:
Fixative (buffered formalin) is recommended as routine fixative for fixing cytological or histological specimen. It preserve cellular morphology of specimen sample.

Composition**

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>100 ml</td>
</tr>
<tr>
<td>Di Sodium hydrogen phosphate</td>
<td>4.000 gm</td>
</tr>
<tr>
<td>Sodium dihydrogen phosphate</td>
<td>6.500 gm</td>
</tr>
<tr>
<td>Distilled or deionized water</td>
<td>900 ml</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters

Directions

1) Prepare blood film on grease free clean slide and air dry for 2 hours at room temperature.
2) Fix the air-dried blood film with fixative (S109) for 1- 3 minutes or as desired.
3) Rinse with running tap water for 10 seconds.
4) Stain as per desired protocol.

Principle And Interpretation

During process of tissue processing, fixation of specimen is carried out to preserve the biological material (tissue or cells) as close to its natural state as possible. Fixative (buffered formalin) protects specimen sample from intrinsic and extrinsic damage. They prevent the growth of most common microorganisms (bacteria in particular) which might exist in a tissue sample or which might colonize the fixed tissue. Fixative may alter the cells or tissues on a molecular level to increase their mechanical strength or stability. This increased strength and rigidity can help preserve the morphology (shape and structure) of the sample during processing of sample.

Type of specimen :
Cytological and Histological samples.

Specimen Collection and Handling
For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1, 2).
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :
In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guideline should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :
1) If fixative is used in excess quantity, it may cause shrinkage and hardening of tissue.
2) Some fixative may have potential biohazards.

Performance and Evaluation
Performance of the product is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.
Quality Control

Appearance
Colourless solution.

Clarity
Clear without precipitate.

Microscopic Examination
Cell Specimen are fixed using fixative and specific staining of fixed specimen is carried out. The stained slide is observed under microscope.

Results
Cell specimen are fixed and preserved.

Storage and Shelf Life
Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (1,2).

Reference

Revision: 00 / 2019

In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

Disclaimer:
User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.