

Comparison of Neutral Buffered Formalin 10% and
Alcohol Based Solutions as Tissue Fixative Agent

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ABSTRACT

Fixation is one of the important steps in the processing of tissue that functions to inhibit the process of decay and autolysis, preservation, and hardening of the tissue. A fixative solution that is commonly used in histological tissue preparations is a Neutral Buffered Formalin (NBF) solution. Other fixative solutions that can be used are alcohol-based solutions that are formalin-free and not carcinogenic. This research aims to compare the quality of tissue staining that is fixed using NBF solution and alcohol-based solution. The research design used is the method of literature study. The data used were obtained from 5 journals relating to research derived from search results on Google Scholar. The results of the research were concluded based on the most data from the results of a journal review on the comparison of the staining quality of nuclear and cytoplasm which obtained the conclusion that the staining quality of tissue fixed with NBF solution generally had comparable results to those fixed using alcohol-based solution.

Key words : Fixative, NBF Solution, Alcohol-Based Solution.