



Neuro•Fix™

Catalog #1300

Intended Use

Neuro•Fix™ is designed to fix brain, spinal cord, and other neural tissues. It fixes astrocytic nuclei with excellence, and axons and dendrites are clearly identified. Associated neuroglia are well fixed. This is the fixative of choice to fix whole brains or brain biopsies.

General Information

Neuro•Fix™ is a fixative designed specially for tissues of the central nervous system. Neuro•Fix™ is the ideal fixative for fixing whole brains and brain biopsies. The histology of neural tissues following fixation with Neuro•Fix™ is superior to that with formalin fixation alone. Following fixation with Neuro•Fix™, cortical neurons display distinct nuclei with precise nucleoli. Cytoplasm shows prominent and well-defined Nissl substance. Oligodendroglia and microglia are clearly distinguished and are easily identified separately. Axons display enhanced staining with simple hematoxylin and eosin stains. Special stains perform with excellence, and all special stains are compatible with this fixative. Silver and gold stains perform admirably, and special stains such as Bielschowski's demonstrate enhanced staining of neurofibrillary tangles and plaques. This is the fixative of choice for whole brains and central nervous system biopsies.

Packaging

Catalog #	Volume
1295	1 pt
1296	1 qt
1300	1 gal
1302	1 gal cube
1304	2.5 gal cube
1308	5 gal cube
1312	5 gal

Fixation Procedure

Neuro•Fix™ is a coagulative and non-coagulative fixative. It is intended to enhance fixation of neural tissues over that achieved with 10% neutral buffered formalin alone.

1. The tissue biopsies or whole brain should be added directly to Neuro•Fix™. No dilution or addition of other agents to the fixative is necessary before use.
2. Generally Neuro•Fix™ should be used similar to the way one would use formalin as a fixative.
3. Biopsies of brain should be fixed at least 5-6 hours prior to processing. Large tissues, such as whole brain, should be fixed 1-2 weeks. Over fixation is not a problem.
4. No washing of tissues after fixation is necessary.
5. The fixed tissues should be processed by the same schedule routinely used for formalin-fixed tissues.

6. The schedule for staining tissues fixed with Neuro•Fix™ is the same as that used routinely for formalin-fixed tissues.
7. Disposal of Neuro•Fix™ is the same as that used for fixatives containing formaldehyde.

Staining Procedure

BBC RECOMMENDED AUTOMATED AND MANUAL HISTOLOGY STAINING PROCEDURE FOR HARRIS HEMATOXYLIN AND EOSIN

*Initially deparaffinize tissue sections with BBC S1™ or Xylene

Step *	Solution	Time
1.	100% Alcohol.....	20 seconds
2.	100% Alcohol.....	20 seconds
3.	95% Alcohol.....	20 seconds
4.	95% Alcohol.....	20 seconds
5.	70% Alcohol.....	20 seconds
6.	Running H ₂ O Wash.....	30 seconds
7.	BBC Harris Hematoxylin	3-5 minutes
8.	Running H ₂ O Wash.....	1 minute
9.	BBC Acid Wash•Histo™ or BBC Acid Alcohol•Histo™	1 minute
10.	Running H ₂ O Wash.....	1 minute
11.	BBC Blueing Solution•Histo™.....	15 seconds
12.	Running H ₂ O Wash.....	1 minute
13.	70% Alcohol.....	30 seconds
14.	BBC Special Eosin I™ or II™, or Eosin Y, or Eosin Y with Phloxine B.....	45 seconds
15.	BBC S2•Histo™	20 seconds
16.	BBC S2•Histo™	20 seconds
17.	BBC S2•Histo™	20 seconds
18.	BBC S2•Histo™	20 seconds
19.	BBC S2•Histo™	20 seconds
20.	BBC S3•Histo™ or Xylene	20 seconds
21.	BBC S3•Histo™ or Xylene	30 seconds
22.	BBC S3•Histo™ or Xylene	30 seconds
23.	Mount and coverslip with Optic Mount I™ or an appropriate mounting medium.	

Note: Each of these reagents can be intermixed and used with other staining sequences and other manufacturer's reagents.