



HistoChoice® Tissue Fixative

Code	Description	Size
H108-1GAL	HistoChoice® Tissue Fixative, 1X	1 gallon
H108-4G	HistoChoice® Tissue Fixative, 1X	4 gallons
H108-16L	HistoChoice® Tissue Fixative, 1X	4 x 4 L
H112-15ML	HistoChoice® Tissue Fixative With Alcohol	15 mL pre-filled cups, 100/case
H112-30ML	HistoChoice® Tissue Fixative With Alcohol	30 mL pre-filled cups, 100/case
H112-90ML	HistoChoice® Tissue Fixative With Alcohol	90 mL pre-filled cups, 50/case
H131-20L	HistoChoice® Tissue Fixative With Alcohol	20 L

General Information

HistoChoice® Tissue Fixative improves healthcare delivery because it is safer to use than formalin-based fixatives and is gentle on tissues and the environment. HistoChoice® Tissue Fixative directly replaces common fixatives, including formalin-based, alcohol-based, Zenker's, B5, and Bouin's fixatives. Additionally, it can also be used in sequence with other fixatives. The preservative characteristics of HistoChoice® Tissue Fixative make it more effective than standard formaldehyde-based products. It yields vibrant staining characteristics and consistent results, even after long-term fixation. The versatility of HistoChoice® Tissue Fixative makes it optimal for use in histopathology, cytology, histochemistry, immunohistochemistry and molecular pathology. It preserves tissue integrity, eliminating the need for marker recovery procedures.

HistoChoice® Tissue Fixative is economical to use as it does not require additional reagents for recovery procedures as do formalin-based fixatives. HistoChoice® also eliminates the need for expensive ventilation systems and reduces disposal costs. HistoChoice® is compatible with manual and automated processing procedures and equipment.

VWR Life Science AMRESKO's HistoChoice® Tissue Fixative is available in pre-filled cups as a safe, convenient solution to on-site tissue collection and transport. The wide mouth, pre-labeled cups are ideal for use in doctor's offices, operating rooms, emergency rooms and outpatient clinics.

- No crosslinking of tissues as with formalin-based fixatives
- Minimizes disposal and compliance costs
- Available without (H108) or with 18% alcohol (H112)
- A safe, non-toxic fixative – contains no formaldehyde, glutaraldehyde or mercury

Storage/Stability

Store at room temperature (18 – 26°C).

Product Use Limitations

For research use only. Not for therapeutic or diagnostic use.

Protocol/Procedure

HistoChoice® Tissue Fixative, 1X (H108 does not contain alcohol and H112 contains 18% alcohol)

Note: HistoChoice® Tissue Fixative is designed to replace formalin and may be used in the customer's standard protocol with the following considerations:

- Warm HistoChoice® Tissue Fixatives to room temperature before use.
- For fixation of large organs, such as brain or lung, use fast perfusion to ensure that all tissue areas are contacted by HistoChoice® Tissue Fixative as quickly as possible to minimize autolytic changes.
- Fixation of 0.5 cm x 0.5 cm specimen will be complete in 3 to 4 hours.
- HistoChoice® is a non-crosslinking fixative. Tissues will be softer and exhibit a more natural appearance than formalin-fixed tissues.

- For long-term storage of large tissue samples, or to obtain firmer tissue, the use of HistoChoice® Tissue Fixative With Alcohol (H112) is recommended. Alternatively, 15-20% alcohol may be added to HistoChoice® Tissue Fixative, 1X (H108). The presence of the alcohol helps prevent bacterial and fungal growth by reducing surface tension. The alcohol will also slightly harden the tissues, giving them a feel similar to formalin-fixed tissues.
- HistoChoice® Tissue Fixatives may be safely used on tissue processors with no procedural changes required.
- **Do not predigest tissue** (proteinase K, trypsin, etc.)!
- In many instances, primary probe or primary antibody concentration may be decreased by up to 50% without compromising results of *in situ* hybridization and immunohistochemistry experiments.
- Blood-rich samples, such as placenta and spleen, may appear to have lysed red blood cells (RBC).

References

Cortical Neurogenesis in Adult Rats After Transient Middle Cerebral Artery Occlusion. Wei J, WeiGang G, Thomas B, Roland R, Per W. *Stroke*. 32, 1201, (2001).

Quantitative comparison of immunohistochemical staining intensity in tissues fixed in formalin and Histochoice. Vince DG. *Anal. Cell. Pathol.* 15, 119, (1997).

HistoChoice as an alternative to formalin fixation of undecalcified bone specimens. Kacena MA. *Biotech. Histochem.* 79, 185, (2004).

HistoChoice® Tissue Fixative is protected under US Patent numbers 5,429,797 and 5,439,667.



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