

Modified Davidson's Fixative (Hartmann's Fixative)

Catalog No. 24355

DESCRIPTION

Modified Davidson's (sometimes called Hartmann's) fixative is a rapid fixative which gives good nuclear detail with minimal formalin pigment for routine histopathological examination. Modified Davidson's Fixative contains no mercury or other metal and is a superior alternative to Bouin's Fixative and 10% Neutral Buffer Formalin.

Davidson's Fixative is not only a safer alternative but also produces less shrinkage and superior overall morphologic detail compared to Bouin's Fixative when used to fix testes. It is routinely used for optimal fixation of eyes. On gross dissection, the Davidson's fixed eyes were easier to cut because it had a more robust structure compared to the formalin fixed eyes.¹ Davidson's fixative can support excellent staining of acrosomes with Periodic Acid-Schiff (PAS) reagent when staging of spermatogenesis is required.² Modified Davidson's Fixative is also known for the visualization of lymph nodes in radical dissection specimens. In both colon and breast specimens it aids in visualization by turning the lymph nodes white.

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Description	Product Code	Packaging
Modified Davidson's Fixative (Hartmann's Fixative)	24355-500	1 x 500 ml
Modified Davidson's Fixative (Hartmann's Fixative)	24355-1	1 x 1 gal

PROCEDURE

1. Place excised specimen in Modified Davidson's Fixative. The fixative volume should be at least 15 to 20 times greater than the specimen volume.
2. Fix specimen not exceed 24 hours for small tissue and/or subsequent IHC procedures. Routine histopathological examinations can allow fixation up to 48 hours.
3. Remove specimen from Modified Davidson's Fixative and briefly rinse with tap water.
4. Proceed with tissue processing procedures. If not processing immediately, specimen can be stored in 10% Neutral Buffered Formalin or 70% Ethanol.

STORAGE AND HANDLING

Store at room temperature. Use ventilation hood and gloves when handling materials.

REFERENCES

1. A. Shariati; H. Ameri; D. R. Hinton; M. S. Humayun (May 2008) **The Effects of Davidson's Fixative Solution in Preserving the Rabbit Eye**, Investigative Ophthalmology & Visual Science May 2008, Vol.49, 5207
2. Latendresse JR, Warbritton AR, Jonassen H, Creasy DM. (2002) **Fixation of testes and eyes using a modified Davidson's fluid: comparison with Bouin's fluid and conventional Davidson's fluid**, Toxicol Pathol. Jul-Aug;30(4):524-33

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