

# Instructions for Use

## XS-3™ Xylene Substitute



| CATALOG NUMBER | DESCRIPTION            | UNIT OF MEASUREMENT |
|----------------|------------------------|---------------------|
| 7400-1         | XS-3 Xylene Substitute | 4 per case          |

### INTENDED USE

XS-3™ Xylene Substitute is 100% aliphatic hydrocarbon that is specifically designed to be used for tissue processing and staining of histological and cytological specimens. In tissue processing, it is used to displace the alcohol content within tissue specimens to prepare them for paraffin infiltration. It is also an excellent lipid extractor. In staining, XS-3™ Xylene Substitute removes paraffin from tissue sections at the beginning of the staining sequence and then readies the slide for coverslipping at the end of the staining process. XS-3™ Xylene Substitute is compatible with all manual and automated staining procedures, as well as in all open and closed tissue processors. Strict quality control and assurance ensures batch to batch consistently and optimal clearing properties. Each batch is quantitatively measured by a gas chromatograph to guarantee chemical consistency and to identify any impurity that may adversely affect tissue processing and/or staining.

### STORAGE AND STABILITY

Storage: Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Store locked up. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Refer to SDS for details.

### PROCEDURES FOR TISSUE PROCESSING

Recommended tissue processing procedure on a conventional tissue processor for a range of tissue types and sizes. Modifications of this schedule may be necessary.

|     |                                   |                |
|-----|-----------------------------------|----------------|
| 1.  | 10% Neutral Buffered Formalin     | 1 hour/holding |
| 2.  | 10% Neutral Buffered Formalin     | 1 hour         |
| 3.  | 70% Alcohol or Alcoholic Formalin | 45 minutes     |
| 4.  | 80% Alcohol or Alcoholic Formalin | 45 minutes     |
| 5.  | 95% Alcohol                       | 45 minutes     |
| 6.  | 100% Alcohol                      | 45 minutes     |
| 7.  | 100% Alcohol                      | 45 minutes     |
| 8.  | 100% Alcohol                      | 45 minutes     |
| 9.  | XS-3™                             | 1 hour         |
| 10. | XS-3™                             | 1 hour         |
| 11. | Paraffin                          | 30 minutes     |
| 12. | Paraffin                          | 30 minutes     |
| 13. | Paraffin                          | 30 minutes     |
| 14. | Paraffin                          | 30 minutes     |

Recommended tissue processing procedure on a conventional tissue processor for small biopsies. Modifications of this schedule may be necessary.

|    |                                   |                |
|----|-----------------------------------|----------------|
| 1. | 10% Neutral Buffered Formalin     | 15 min/holding |
| 2. | 10% Neutral Buffered Formalin     | 10 minutes     |
| 3. | 70% Alcohol or Alcoholic Formalin | 10 minutes     |
| 4. | 80% Alcohol or Alcoholic Formalin | 10 minutes     |
| 5. | 95% Alcohol                       | 10 minutes     |
| 6. | 100% Alcohol                      | 10 minutes     |

|     |              |            |
|-----|--------------|------------|
| 7.  | 100% Alcohol | 10 minutes |
| 8.  | 100% Alcohol | 10 minutes |
| 9.  | XS-3™        | 10 minutes |
| 10. | XS-3™        | 10 minutes |
| 11. | Paraffin     | 5 minutes  |
| 12. | Paraffin     | 5 minutes  |
| 13. | Paraffin     | 5 minutes  |
| 14. | Paraffin     | 5 minutes  |

### PROCEDURE FOR H&E STAINING

This is an example of a staining procedure for the use of Reagent Alcohol in H&E staining. Modifications may be necessary for each lab. The recommendations aim to ensure proper tissue preparation and staining procedures. A reagent rotation/change schedule should be developed by each lab in accordance with policies and procedures.

|     |                |            |
|-----|----------------|------------|
| 1.  | XS-3™          | 2 minutes  |
| 2.  | XS-3™          | 2 minutes  |
| 3.  | XS-3™          | 2 minutes  |
| 4.  | 100% Alcohol   | 1 minute   |
| 5.  | 100% Alcohol   | 1 minute   |
| 6.  | 100% Alcohol   | 1 minute   |
| 7.  | 95% Alcohol    | 1 minute   |
| 8.  | Water Rinse    | 30 seconds |
| 9.  | Hematoxylin    | 3 minutes  |
| 10. | Water Rinse    | 1 minute   |
| 11. | Acid Rinse     | 30 seconds |
| 12. | Water Rinse    | 1 minute   |
| 13. | Bluing Reagent | 1 minute   |
| 14. | Water Rinse    | 1 minute   |
| 15. | 95% Alcohol    | 15 seconds |
| 16. | Eosin          | 30 seconds |
| 17. | 100% Alcohol   | 1 minute   |
| 18. | 100% Alcohol   | 1 minute   |
| 19. | 100% Alcohol   | 1 minute   |
| 20. | XS-3™          | 1 minute   |
| 21. | XS-3™          | 1 minute   |
| 22. | XS-3™          | 1 minute   |

Please contact [tech@statlab.com](mailto:tech@statlab.com) with any additional questions.



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