

Part ABSB-04 Revised March 2024

Slide Brite™ Xylene Substitute – Technical Memo

Solution: Slide Brite™

4 X 1 Gallon Part ABSB-04

| Additionally Needed: | |
|--------------------------------|------------|
| Alcohol, Ethyl Denatured, 70% | Part 10844 |
| Alcohol, Ethyl Denatured, 95% | Part 10842 |
| Alcohol, Ethyl Denatured, 100% | Part 10841 |
| Choice Mounting Medium | Part 1032 |

For storage requirements and expiration date refer to individual bottle labels.

APPLICATION:

Newcomer Supply Slide Brite[™] Xylene Substitute is classified as an aliphatic hydrocarbon that provides a safe alternative to xylene, reduces risks and improves personnel safety in the laboratory. Benefits of Slide Brite[™] include:

- · Odorless, non-hazardous, non-irritating and fast drying.
- · Gentle on tissue and enhanced nuclear detail.
- No tissue brittleness, shrinkage or adverse morphologic changes.
- Compatible with IHC staining.
- Does not require hazardous/flammable storage.
- Flash point of 61°C/142°F (29°C/84°F flash point of xylene)
- No vapor monitoring.
- Compatible on tissue processors and staining systems.

METHOD:

Fixation: Formalin 10%, Phosphate Buffered (Part 1090) **Technique:** Paraffin, frozen sections, smears

PROCESSING PROCEDURE:

- 1. Refer to Slide Brite™ Tissue Processing Schedule on Page 2.
- Use three Slide Brite[™] clearing stations, 60 minutes each.
 a. For two clearing stations, allow 90 minutes per station.
- 3. Rotate, filter and/or replace Slide Brite™ stations daily or after processing approximately 1000 blocks.
- Test and optimize Slide Brite[™] as a clearing agent in tissue processing schedules prior to standard use.

STAINING PROCEDURE:

- 1. Refer to Slide Brite[™] Staining Procedure on Page 2.
- 2. For best deparaffinization results, place warm slides directly from dryer/oven into Slide Brite™.
- 3. Deparaffinize warm slides thoroughly in three changes of Slide Brite [™], 3 minutes each. Hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
 - a. See Procedure Notes #1, #2 and #3.
- 4. Proceed with staining protocol.
- 5. Dehydrate in two changes of 95% and three changes of 100% ethyl alcohol. Clear in four changes of Slide Brite™.
- 6. Coverslip with Choice Mounting Medium (Part 1032).
 - a. See Procedure Note #4.
- 7. Test and optimize Slide Brite[™] in staining procedures and automated staining systems prior to standard use.

PROCEDURE NOTES:

- 1. Deparaffinization and clearing steps may require longer timings then xylene.
- 2. Slide Brite[™] requires more frequent changes compared to xylene.
- 3. Any water contamination will layer on top of Slide Brite™.
 - a. Use Hydrosorb-X™ Water Absorbing Packets (STHXP) to minimize presence of water.
- 4. Test Slide Brite[™] compatibility with other mounting mediums prior to use.
 - If mounting medium displays separation or is not readily miscible, it is incompatible with Slide Brite[™].
- 5. Slide Brite[™] is not recommended for automated coverslippers.
- 6. Slide Brite™ will not remove adhered coverslips as well as xylene.
- 7. Refer to manufacturer's specifications on the use of Slide Brite™ on all instrumentation.

REFERENCES:

- Dapson, Janet Crookham, and Richard W. Dapson. Hazardous Materials in the Histopathology Laboratory: Regulations, Risks, Handling and Disposal. 4th ed. Battle Creek, MI: Anatech, 2005. 150-155, 235.
- Wynnchuk, Maria. "Evaluation of Xylene Substitutes for Paraffin Tissue Processing." *The Journal of Histotechnology* 17.2 (1994): 143-149.
- 3. Modifications developed by Newcomer Supply Laboratory.

SUPPORT/WARRANTY: For assistance regarding this product contact Newcomer Supply at 800-383-7799 or info@newcomersupply.com. The information presented in this technical memo is to the best of our knowledge accurate. No warranty is expressed or implied. The user is responsible for determining the suitability of this product for their use and upon receipt assumes all liability for its use and responsibility for compliance with any laws or regulations. Please refer to www.newcomersupply.com for complete warranty information. © Newcomer Supply, Inc., 2024 Page 1 of 2



2505 Parview Road • Middleton, WI 53562-2579 • 800-383-7799 • www.newcomersupply.com • info@newcomersupply.com

Slide Brite[™] Routine Tissue Processing Schedule

| Station | Solution/Reagent | Heat | Vacuum | Time |
|---------|----------------------------------|-------------|----------|-------------|
| | | | | |
| 1 | Formalin 10%, Phosphate Buffered | Off | Off | 90 Minutes |
| 2 | Formalin 10%, Phosphate Buffered | Off | Off | 90 Minutes |
| 3 | 70% Alcohol, Ethyl Denatured | Off | Off | 30 Minutes |
| 4 | 95% Alcohol, Ethyl Denatured | Off | Off | 40 Minutes |
| 5 | 100% Alcohol, Ethyl Denatured | Off | 15 mm Hg | 50 Minutes |
| 6 | 100% Alcohol, Ethyl Denatured | Off | 15 mm Hg | 40 Minutes |
| 7 | 100% Alcohol, Ethyl Denatured | Off | 15 mm Hg | 40 Minutes |
| 8 | Slide Brite™ | Off/On 38°C | 15 mm Hg | 60 Minutes |
| 9 | Slide Brite™ | Off/On 38°C | 15 mm Hg | 60 Minutes |
| 10 | Slide Brite™ | Off/On 38°C | 15 mm Hg | 60 Minutes |
| 11 | Paraffin | 60°C | 15 mm Hg | 120 Minutes |
| 12 | Paraffin | 60°C | 15 mm Hg | 60 Minutes |

Slide Brite[™] Routine Tissue Processing Notes:

1. When using only two clearing stations, increase time from 60 minutes to 90 minutes per station (Steps #8 to #10).

2. Rotate, filter and/or replace Slide Brite[™] solutions daily or after processing approximately 1000 blocks.

| Step | Solution/Reagent | Time | |
|------|---|--------------------|--|
| | | | |
| 1 | Slide Dryer/Oven 58°C-60°C | | |
| 2 | Slide Brite [™] | 3 Minutes | |
| 3 | Slide Brite™ | 3 Minutes | |
| 4 | Slide Brite [™] | 3 Minutes | |
| 5 | 100% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 6 | 100% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 7 | 95% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 8 | 95% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 9 | Distilled Water Rinse | 30 Seconds Minimum | |
| 10 | Proceed with Staining Protocol. | | |
| 11 | 95% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 12 | 95% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 13 | 100% Alcohol, Ethyl Denatured | 30 Seconds/10 Dips | |
| 14 | 100% Alcohol, Ethyl Denatured | 1 Minute | |
| 15 | 100% Alcohol, Ethyl Denatured | 1 Minute | |
| 16 | Slide Brite™ Clearing Agent | 1 Minute | |
| 17 | Slide Brite [™] Clearing Agent | 1 Minute | |
| 18 | Slide Brite [™] Clearing Agent | 2 Minutes | |
| 19 | Slide Brite™ Clearing Agent | 2 Minutes | |
| 20 | Coverslip with Choice Mounting Medium | | |

Slide Brite[™] Staining Procedure

Slide Brite[™] Staining Procedure Notes:

1. For best deparaffinization results, place warm slides directly from dryer/oven into Slide Brite™ (Step #2).

2. Choice Mounting Medium (Part 1032) is the recommended mounting medium with Slide Brite™.

SUPPORT/WARRANTY: For assistance regarding this product contact Newcomer Supply at 800-383-7799 or info@newcomersupply.com. The information presented in this technical memo is to the best of our knowledge accurate. No warranty is expressed or implied. The user is responsible for determining the suitability of this product for their use and upon receipt assumes all liability for its use and responsibility for compliance with any laws or regulations. Please refer to www.newcomersupply.com for complete warranty information. © Newcomer Supply, Inc., 2024 Page 2 of 2