

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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> as a clearing agent in tissue processing schedules prior to standard use.

### **STAINING PROCEDURE:**

- 1. Refer to Slide Brite<sup>™</sup> 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 <sup>™</sup>, 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> compatibility with other mounting mediums prior to use.
  - If mounting medium displays separation or is not readily miscible, it is incompatible with Slide Brite<sup>™</sup>.
- 5. Slide Brite<sup>™</sup> 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. 4<sup>th</sup> 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



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## Slide Brite<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> solutions daily or after processing approximately 1000 blocks.

Step	Solution/Reagent	Time	
1	Slide Dryer/Oven 58°C-60°C		
2	Slide Brite <sup>™</sup>	3 Minutes	
3	Slide Brite™	3 Minutes	
4	Slide Brite <sup>™</sup>	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 <sup>™</sup> Clearing Agent	1 Minute	
18	Slide Brite <sup>™</sup> Clearing Agent	2 Minutes	
19	Slide Brite™ Clearing Agent	2 Minutes	
20	Coverslip with Choice Mounting Medium		

## Slide Brite<sup>™</sup> Staining Procedure

#### Slide Brite<sup>™</sup> 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™.

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