

TintoDeparaffinator Hot Rinse 20X

RUO



Intended Use

For Research Use Only.

Summary and Explanation

The TintoDeparaffinator Hot Rinse is part of a set of solutions intended for paraffin removal from paraffin-embedded tissues, hydrating and heat permeabilizing tissues to achieve epitope or nucleic acid retrieval. The TintoDeparaffinator Hot Rinse, TintoDeparaffinator Citrate (BSB 0175 and BSB 0176) and TintoDeparaffinator EDTA (BSB 0177 and BSB 0178), are innovative reagents formulated to reduce exposure to toxic solvents and to reduce the number of steps in deparaffinization, hydration and epitope or nucleic acid retrieval, thus making them a safe and efficient alternative to traditional deparaffinization involving xylenes and alcohols. Since they do not interfere with the detection of proteins by Immunohistochemistry, Immunocytochemistry, or of nucleic acids by CISH and FISH, results are the same as when using xylene and alcohol. The deparaffinization procedure with TintoDeparaffinator Hot Rinse, TintoDeparaffinator Citrate, and TintoDeparaffinator EDTA solutions uses a heat-assisted deparaffinization method while achieving tissue hydration and retrieval of proteins and nucleic acids. Deparaffinization at moderately elevated temperatures has been shown to adequately dissolve paraffin at significantly lower solvent concentrations compared to methods of deparaffinization at ambient temperatures using xylenes and/or xylene substitutes. By utilizing lower non-toxic solvent concentrations, the process of tissue rehydration following deparaffinization and retrieval can be achieved with a single final rinse step to remove micro paraffin leftovers, followed by direct transfer of slides to a buffer bath. These reagents are specifically designed to work with the Bio SB TintoRetriever Pressure Cooker (BSB 7008) or TintoRetriever PT Module (BSB 7030 and BSB 7033) but may be used with any heating device that provides the required temperature.

These reagents are designed to deparaffinize, rehydrate and retrieve one microscope slide containing a standard size (from 0.5cm x 1cm up to 2.5cm x 2.5cm diameter) paraffin-embedded tissue section per 3 ml of TintoDeparaffinator Hot Rinse 1X. A typical staining dish containing 200-250 ml of the TintoDeparaffinator Hot Rinse 1X solution will help deparaffinize approximately 72 standard tissue sections. If larger tissue sections are used, the number of processed slides may be less. If residual paraffin is observed microscopically on the slides following deparaffinization, the deparaffinization reagents should be replaced.

TintoDeparaffinator Hot Rinse is intended to be used as a final rinse step in order to help remove residual micro-paraffin leftover on the slides after the use of heat treatment with either the TintoDeparaffinator Citrate or the TintoDeparaffinator EDTA.

ChromoProtector is highly recommended to be used after the intended staining procedure in order to remove any significant micro-paraffin that may be leftover before mounting slide with a coverslip.

Presentation

TintoDeparaffinator Hot Rinse 20X contains glycols and glycol ethers. It is provided in liquid form.

Catalog No.	Concentration	Volume
BSB-0179-RUO	TintoDeparaffinator Hot Rinse 20X	100 mL
BSB-0180-RUO	TintoDeparaffinator Hot Rinse 20X	1 L

Storage Store at 20-25°C

Stability

This product is stable up to the expiration date on the product label.

Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use. Adhere to all local laws when disposing of this product.

Precautions

1. For professional users only. Results should be interpreted by a qualified medical professional.
2. This product contains <0.1% sodium azide (NaN_3) as a preservative. Ensure proper handling procedures are used with this reagent.
3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.
4. Dispose of unused solution with copious amount of water.
5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
8. For additional safety information refer to Safety Data Sheet for this product.

9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" (see References in this document).

Preparation of Working Solution

For working solution, dilute the concentrated 20X ImmunoDNA Retriever Citrate with distilled water 1:20 (50 mL of the 20X ImmunoDNA Retriever Citrate should be diluted with distilled water to make up 1 L of 1X working solution).

Recommended Protocol

1. Dilute the TintoDeparaffinator Hot Rinse 20X solution 1:20 with distilled water.
2. Add the diluted TintoDeparaffinator Hot Rinse 1X solution to a staining dish (200 mL, or enough to cover tissues).
3. Place the slides with mounted tissues or cells into a slide holder and then immerse them into a staining dish with containing either TintoDeparaffinator Citrate 1X or TintoDeparaffinator EDTA 1X.
4. Position both the staining dishes containing the slides with mounted tissues or cells in the TintoDeparaffinator Citrate 1X or TintoDeparaffinator EDTA 1X, and the TintoDeparaffinator Hot Rinse 1X into the heating apparatus.
5. Heat slides at a high pressure with a temperature of 114°C to 121°C for 10-15 mins. Other heat retrieval options are low pressure at 106°C to 110°C, or the PT module/water bath at 95°C to 98°C for 30-45 mins.
6. After the allotted time has passed, remove both staining dishes from the heating apparatus.
7. Remove slide rack with slides from TintoDeparaffinator Citrate 1X or TintoDeparaffinator EDTA 1X solution and tap on a paper towel to remove as much TintoDeparaffinator Citrate 1X or TintoDeparaffinator EDTA 1X as possible. Do not let slides dry out.
8. Transfer into TintoDeparaffinator Hot Rinse 1X solution for 5 minutes.
9. Remove from the Hot Rinse solution and tap on a paper towel to remove as much TintoDeparaffinator Hot Rinse 1X as possible.
10. Transfer to a room temperature buffer bath for a few minutes, and then proceed with IHC, ICC, CISH or FISH staining protocol.
11. After counterstaining, incubate slides in Chromoprotector at 60°C for 10 mins, and air dry completely before cover-slipping slides.

Abbreviated Immunohistochemical Protocol

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

References

U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012.

Symbol Key / Légende des symboles/Erläuterung der Symbole

	Storage Temperature Limites de température Zulässiger Temperaturbereich		Manufacturer Fabricant Hersteller		Catalog Number Référence du catalogue Bestellnummer
	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten		Expiration Date Utiliser jusque Verwendbar bis		Lot Number Code du lot Chargenbezeichnung