ChromoProtector

RUO

Intended Use
For Research Use Only.

Summary and Explanation
For use in histological, immunohistochemical and in situ hybridization staining procedures to preserve stains before the permanent mounting of tissues or cell preparations. The ChromoProtector is applied prior to mounting of slides and is useful in preserving stains like AEC (Cat# BSB 0011-0061), HRP Green (Cat# BSB 0128-0133), HRP Blue (Cat# BSB 0143-0148), ALK Brown (Cat# BSB 0072-0076), ALK Magenta (Cat# BSB 0077-0081), ALK Red (Cat# BSB 0067-0071), ALK Scarlet (Cat# BSB 0138-0142) and other similar substrate-chromogens that might otherwise dissolve in organic mounting media. DAB (Cat# BSB 0015-0018), HRP Black (Cat# BSB 0087-0090), ALK Blue (Cat# BSB 0062-0066), or other substrate-chromogens suitable for permanent mounting can also be mounted using ChromoProtector for a solvent/xylene-free procedure.
ChromoProtector when used with the TintoDeparaffinator Citrate or EDTA (Cat# BSB 0175-0180) and XyGreen PermaMounter (Cat# BSB 0169-0174), allows for a solvent/xylene-free and alcohol free environment when conducting histological, immunohistochemical and in situ hybridization procedures.

Presentation
Liquid, ready-to-use solution containing polymers for sealing histological, immunohistochemical and in situ hybridization procedures for preservation of stains when slides are mounted before microscopic observation.

Catalog No.	*Concentration*	*Volume*
BSB-0151-RUO	Ready-to-use	15 mL
BSB-0152-RUO	Ready-to-use	50 mL
BSB-0153-RUO	Ready-to-use	100 mL
BSB-0154-RUO	Ready-to-use	200 mL
BSB-0155-RUO	Ready-to-use	500 mL
BSB-0156-RUO	Ready-to-use	1000 mL

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
Chromoprotector is a ready-to-use working solution and requires no further preparation.

Recommended Protocol

1. After the histological, immunohistochemical or in situ hybridization staining procedure is completed, rinse slides in deionized water. Do not incubate tissue or cell specimens in solvents such as alcohol, toluene, or xylene.
2. Using a coplin jar or a staining dish, immerse slides with tissues in ChromoProtector or lay wet slides horizontally and apply sufficient drops of ChromoProtector to completely cover the tissue. Carefully spread ChromoProtector if needed, but avoid contacting the tissue.
3. Incubate slides for ten minutes at 60 ºC to allow ChromoProtector to penetrate tissues.
4. Remove excess ChromoProtector by placing slides vertically over an absorbent material and let excess drain off into absorbent material. Do not rinse slides.
5. Allow slides to COMPLETELY air dry.

NOTE: The ChromoProtector will protect tissue from drying artifacts during the air-drying process.

6. When slides are dry they can be mounted using most standard mounting methods.

Aqueous Mounting

A. Add aqueous mounting medium, such as the Bio SB AquaMounter (Cat # BSB 0090-0093) or similar product, in accordance to the manufacturer's recommendation.
B. Apply coverslip and air dry before microscopic observation.

Permanent Mounting

A. Slides do not need to be dehydrated through alcohol and/or xylene prior to mounting.
B. Permanent Mounting medium such as XyGreenPermaMounter (Cat # BSB 0169-0174), PermaMounter (Cat# BSB 0094-0097) or similar permanent mounting media can be added directly to the slide.
C. If the Permanent Mounting medium does not spread evenly on the dry slide, the slide can be dipped in toluene or xylene to aid spreading of the mounting medium.
D. Use a minimum amount of mounting medium so that slides dry rapidly.
E. Apply coverslip and air dry before microscopic observation.

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

1. 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

Bio SB
BIOSCIENCE FOR THE WORLD
5385 Hollister Avenue, Bldg. 8, Ste. 108 Santa Barbara, CA 93111, USA
Tel. (805) 692-2768 | Tel. (800) 561-1145 | Fax. (805) 692-2769
E-mail: sales@biosb.com | Website: www.biosb.com