

ImmunoDNA Retriever 20X with Citrate

RUO



Intended Use

For Research Use Only.

Summary and Explanation

ImmunoDNA Retriever Citrate is intended to be used with heat-induced epitope or nucleic acid retrieval procedures for Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF) and in situ hybridization (ISH) of nucleic acids (both CISH or FISH). ImmunoDNA Retriever Citrate may be used whenever immuno or nucleic acid staining are performed on formalin fixed, paraffin embedded tissue sections. This product can be used with any antigen or nucleic acid. Using this product encourages standardization of the pretreatment procedure, thereby producing more consistent, more reliable results.

Presentation

20X ImmunoDNA Retriever Citrate contains a Citrate Buffer solution, detergents and stabilizers. 20X ImmunoDNA Retriever Citrate is provided in liquid form. The final pH of the working solution should be 6.1 +/- 0.2

<i>Catalog No.</i>	<i>Concentration</i>	<i>Volume</i>
BSB-0023-RUO	20X	50 mL
BSB-0020-RUO	20X	200 mL
BSB-0021-RUO	20X	500 mL
BSB-0022-RUO	20X	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 the 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 (NaN₃) 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. Prepare working solution from 20X Immuno DNA Retriever Citrate as described above.
2. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Bio SB Hydrophilic Plus Slides (BSB 7028).
3. Air dry for 2 hours at 58° C.
4. Deparaffinize, dehydrate and rehydrate tissues.
5. Place plastic slide rack or tissue slides into a staining dish or coplin jar and fill until tissues are covered with working solution of ImmunoDNA Retriever Citrate.
6. Any of three heating methods may be used:

a. TintoRetriever Pressure Cooker or Equivalent

Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate, and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.

b. TintoRetriever PT Module or Water Bath Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate at 95°-99° C. Incubate for 30-60 minutes.

c. Conventional Steamer Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate in a steamer, cover and steam for 30-60 minutes.

7. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate to room temperature and let stand for 15-20 minutes.
8. Wash slides with ImmunoDNA washer or DI water.
9. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.

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.

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

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