INNOVEX biosciences

Can be warmed and re-used up to 3 times

UNI-TRIEVE

Mild Temperature Universal Retrieval Solution by simple incubation

Retrieves at 40°C to 80°C for all antibodies & tissues using a water bath or incubator

No Boiling/ No microwaving/ No pressure cooking required

pH – independent; Background-Free; No tissue loss

Technical Data Sheet

Reagent Category
Low and Mild temperature retrieval solution

Specific Reagents Supplied
□ 1 liter of Ready-To-Use solution
□ 200 ml of Ready-To-Use (trial size)

PRODUCT NUMBER: NB325 (1 liter)
PRODUCT NUMBER: NB325-200 (200 ml trial size)

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PRODUCT DESCRIPTION

UNI-TRIEVE is a Universal Mild Temperature Retrieval Solution formulated for gentle retrieval by simple incubation of tissues and cell preparations at low and mild temperatures using a water bath. Deparraffinized formalin fixed paraffin embedded sections can be incubated at **70°C *UNI-TRIEVE* for 30-minutes using a water bath or a very well sealed incubator**. Retrieving with ***UNI-TRIEVE*** does not require exposure to high temperature such as boiling, pressure cooking, steaming, microwaving or other high heat retrieval methods.
Uni-Trieve is pH-independent and therefore is universally applicable to retrieving for all primary antibodies and all animal and human tissues and cell preparations. An incubation of **30-minute at 70°C with *UNI-TRIEVE*** solution is sufficient for retrieval of **all membrane and cytoplasmic antigens; Nuclear antigens such as ER, PR, Ki-67, etc. require doubling the incubation time. *UNI-TRIEVE*** does not require boiling or exposure to high heat and therefore does not require the use of pressure cookers or microwaving which cause tissue loss and are damaging to tissue integrity and morphology. ***UNI-TRIEVE*** REMOVES **BACKGROUND.**

UNI-TRIEVE is suitable for retrieval of all tissues and cell preparations for the variety of assays such as Immunohistochemistry (IHC), Immunofluorescence (IF) and *in-situ* staining, etc.
***UNI-TRIEVE* does not require a cooling period.**

UNI-TRIEVE is gentle to tissues and cells due to the absence of low pH and high pH buffers and high heat, therefore, does not cause tissue loss, tissue damage or morphology damage***. UNI-TRIEVE does not cause background and it actually removes background.***

UNI-TRIEVE retrieves tissues at 40°C to 80°C temperature range by using a water bath or a well sealed incubator as the heat source. **Retrieval with UNI-TRIEVE Solution preserves antigens and markers that are heat labile and can be damaged or destroyed by heat.**
Some nuclear antigen such as ki-67, Estrogen Receptor (ER) and progesterone receptor (PR) require retrieval with Uni-Trieve solution at 80°C for 30-minutes or at 75°C for 1-hour.
Over-night incubation of slides at low temperatures of 37 to 40°C Uni-Trieve solution retrieves for all membrane, cytoplasmic and nuclear markers and is specifically useful for retrieving heat-sensitive tissues such as brain, fatty tissues and for CD markers.

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UNI-TRIEVE **is a perfect replacement for tissues and antibodies that require proteolytic enzyme digestion; Such as digestion of tissues with pronase, trypsin and pepsin enzymes for cytokeratin antibodies and other antibodies that require enzymatic treatment.**
Simply replace the enzymatic digestion with incubation in 70°C *UNI-TRIEVE* for 30-minutes.

INTENDED USE/APPLICATION

This product is intended for retrieving tissue/cellular antigens by incubating the tissue sections or cell preparations in 40°C to 80°C Uni-Trieve solution using a water bath or a well sealed incubator as the heat source. Uni-Trieve may also be used for Over-Night Retrieval at 37°C to 40°C.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

INSTRUCTIONS

Same-Day Retrieval

1. Set a water bath at 70°C
2. Fill a coplin jar or any other slide holding vessel halfway ***UNI-TRIEVE*** Solution, place the coplin Jar/vessel in the water bath, Allow 30-minutes for Uni-Trieve solution to reach 70°C. Insert a thermometer in Uni-Trieve solution and once Uni-Trieve solution reaches 70°C, immerse deparaffinized slides into 70°C Uni-Trieve solution and place a lid on the jar**. *Make certain there is enough Uni-Trieve solution to cover the non-frosted length of the slide and that the level stops below the frosted or painted end of the slide.***
3. **Let slides incubate for at 70°C Uni-Trieve solution for 30-minutes.**
4. Remove slides from the coplin jar and place them in an empty jar.
5. Rinse slides with 4-quick changes of water by filling an emptying jar 4-times; No cooling period is required with Innovex UNI-TRIEVE.
   Proceed with IHC or IF or *in-situ* staining procedure.

Some Nuclear antigens such as ER, PR, ki-67, etc. require 1-hour at 75°C OR 30-minutes at 80°C.

Over-Night Retrieval

Over-night incubation of slides at 40°C Uni-Trieve solution retrieves all membrane, cytoplasmic and nuclear antigens.

1. Set a water bath at 40°C.
2. Fill a coplin jar or any other slide holding vessel half way with **UNI-TRIEVE** Solution, place the Jar in the water bath and immerse deparaffinized slides into the jar containing Uni-Trieve solution and place a lid on the jar; ***Make certain there is enough Uni-Trieve solution to cover the length of slides and that level stops below the frosted or painted end of the slide.***
3. **Let slides incubate at 40°C Uni-Trieve solution over-night.**
4. Next morning, transfer slides to an empty coplin jar and rinse slides with 4-quick changes of water by filling an emptying jar 4-times; No cooling period is required.
   Proceed with IHC or IF or *in-situ* staining procedure.

UNI-TRIEVE is re-usable and can be re-heated up to 3 times. After each use, return the once or twice heated Uni-Trieve solution to refrigerator and warm again up to 3 times before discarding. If needed, fresh Uni-Trieve may be added to previously used Uni-Trieve solution to replenish and increase volume.

FOR RESEARCH USE ONLY

FOR ADDITIONAL TECHNICAL SUPPORT
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