

IHC Made Affordable

Dewax Solution-1(DP1) and Dewax Solution-2 (DP2) for Two-Step Deparaffinization

Catalog Number:

DP1-K087-HL

DP2-K088-HL

**This data sheet is applicable to all sizes (volume) of product. Actual volume is indicated on vial or bottle

Document # DS-2054-C Effective Date: 12/18/2023

Intended Use

For In Vitro Diagnostic Use

Summary and Explanation

The DP1 &DP2 reagents are used for deparaffinization of paraffin-embedded tissue sections. Deparaffinization is completed in two steps without the use of xylene or alcohol. After deparaffinization the tissue sections can be transferred directly into antigen retrieval solution.

Features

- 1. Performs the following steps
 - Deparaffinization
 - Removes paraffin both around and beneath the tissue providing better paraffin removal than similar aqueous deparaffinization solutions.
 - Water miscible reagent so slides can be transferred directly to antigen retrieval solution
 - Does not use xylene or alcohol
 - Reagent is nonflammable and biodegradable

Known Applications

Deparaffinization of paraffin-embedded tissue sections.

Product Description

DP1 and DP2 are a blend of aqueous buffers and a paraffin solvent (orange oil). Because of these properties it can act as both a deparaffinzing agent and a reydration agent thus eliminating the requirement for transferring the paraffin tissues through a series of graded xylenes and alcohol. Deparaffinization occurs rapidly at temperatures in excess of 50 C. (Range 50 - 60 C). In contrast to other aqueous deparaffinization reagents, the paraffin is completely removed from both around and beneath the tissues.

DP1 and DP2 deparaffinization are compatible with Immunohistochemistry.

Format

Ready-To-Use. Do not dilute.

Volume/UOM

15 mL / 500mL

Principles of the Procedure

Paraffin-embedding of tissues is standard practice for many histological techniques. The paraffin provides a solid matrix to aid in cutting of the tissue and preparing histological sections on microscope slides. Prior to staining the paraffin must be removed from the tissue sections as the paraffin interferes with the staining procedure

Materials Required But Not Provided

Diagnostic BioSystems Montage Opus® Antigen Retrieval System [AR 360]

Storage and Handling

Store at room temperature. Do not use after expiration date printed on label. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

Specimen Preparation

Appropriate fixation plays an important role in preserving the tissue structure. The antigen retrieval protocol is recommended for use in tissues that have been fixed in formalin only. Ensure that the fixed sections are adequately embedded in paraffin. Cut tissue sections to 4-5 microns.

Precautions

This product is a single-use, non-sterile, in vitro diagnostic device.

- · Wear disposable gloves when handling reagents.
- Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water.
- Microbial contamination of reagents may result in an increase in nonspecific staining.
- Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
- Do not use reagent after the expiration date printed on the label.
- The MSDS is available upon request.
- Consult OSHA, federal, state or local regulations for disposal of any toxic substances.

Preparation of Working Solutions

- The DP1 and DP2 reagent are provided Ready-To-Use and should not be diluted.
- · Store with cap tightly secured.
- The reagent may be reused up to five times.
- Discard used reagent if slides are incompletely deparaffinized.

Protocol Recommendations

HighLighter™ (instrument)

Please follow the instrument protocol and HL-core kit (catalog: HL72K) datasheet for more details.

Manual protocol:

Fill a suitable container with DP1 reagent.

 Preheat the DP1 (K078-HL), DP2 (K088-HL), and Wash Buffer reagents to 50 – 60 C. If using a pressure cooker, set the pressure cooker to the lowest temperature setting.



Diagnostic BioSystems 6616 Owens Drive Pleasanton, CA 94588 Tel: (925) 484 3350 www. dbiosys.com







MedEnvoy Switzerland Gotthardstrasse 28 6302 Zug Switzerland



MedEnvoy Global B.V.

Prinses Margrietplantsoen 33 - Suite 123
2595 AM The Hague
The Netherlands



IHC Made Affordable

- Place slides, containing paraffinized tissue, into the preheated DP1 for 5 minutes. Agitate a few times.
- After heating, remove slides from DP1 and allow excess DP1 to drain, Tap the slides on a paper towel to remove as much DP1 as possible. Do not allow the slides to dry out.
- Once drained, place slides into preheated DP2 container for 3 minutes. Agitate a few times.
- Remove slides from DP2 and allow excess DP2 to drain, Tap the slides on a paper towel to remove as much DP1 as possible. Do not allow the slides to dry out.
- Place slides into pre-warmed Wash Buffer for about 2-3 minutes.
 Agitate a few times.
- Tap the slides on a paper towel to remove as much Wash Buffer as possible, then place the slides into the Antigen Retrieval solution
- 8. Perform Antigen Retrieval according to standard protocol.
- 9. After Antigen Retrieval place the slides into Wash Buffer.
- 10. Inspect the slides. The Wash Buffer should form a uniform, smooth layer across the slide. There should be no streaking or beading of the Wash Buffer or the IHC reagents when applied to the slides. If the slides show evidence of streaking or beading, then the DP1 and DP2 are depleted and need to be replaced.

Quality Control

Refer to CLSI Quality Standards for Design and Implementation of Immunohistochemistry Assays; Approved Guideline-Second edition (I/LA28-A2). CLSI Wayne, PA, USA (www.clsi.org). 2011

Troubleshooting

Avoid allowing the Antigen Retrieval solution to boil over as this may cause the tissue to come off the slide or the tissue to dry out.

- Non-specific staining in the negative control can be due to the
 exposure of endogenous biotin. Over retrieval can sometimes
 result in high background due to the detection system or excess
 antibody. In that case further dilution of the antibody may be
 necessary. Including an additional avidin-biotin block should
 prevent staining of the exposed biotin.
- If positive control gives optimum signal, negative control shows no background and test slide gives negative or weak signal, a fixative other than neutral buffered formalin mayhave been used. In order to obtain the best signal under these circumstances, optimization of antigen retrieval conditions is recommended.
- Refer to appropriate antibody and detection system inserts for pattern and intensity of staining with different antibodies.
- Contact Diagnostic BioSystems Technical Support at (925) 484-3350, extension 2, techsupport@dbiosys.com or your local distributor to report unusual staining.

Limitations of the Procedure

The antigen retrieval protocol is recommended for use with tissues fixed with formalin only. Other fixatives or fixation procedures may not produce comparable results. Interpretation of the staining results is solely the responsibility of the user.

Warranty

There are no warranties, expressed or implied, which extend beyond this description. Diagnostic BioSystems is not liable for property damage, personal injury, or economic loss caused by this product.

Expected Results

Antigen retrieval can produce markedly improved staining of a wide variety of monoclonal and polyclonal antibodies. This helps overcome false negative staining of over fixed tissue, expand the range of antibodies that can be used and increase the usefulness of archival tissue.

Optimized antigen retrieval should improve signal to noise in immunohistochemistry.

Performance Characteristics

The protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, and tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Diagnostic BioSystems products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. These products are tools that can be used for interpretation of morphological findings in conjunction with other diagnostic tests and pertinent clinical data by a qualified pathologist.

References

 Mekota AM et al. Determination of optimal rehydration, fixation and staining methods for histological and immunohistochemical analysis of mummified soft tissues. Biotech Histochem. 2005 Jan-Feb;80(1):7-13

Patented Technology: US 10,852,219B2









Switzerland

