Harris Hematoxylin

PRODUCT INFORMATION:

REF	
PS021	100ml
PS021	500ml
PS021	1L
PS021	2.5L

INTENDED USE

For *laboratory* use only

Harris Hematoxylin is intended for use as a nuclear counterstain in histology, cytology, and immunohistochemistry procedures. It provides selective staining of cell nuclei in tissue sections and cell preparations, producing a blue to purple colouration that aids in the morphological evaluation of specimens under light microscopy.

SUMMARY AND EXPLANATION

Harris Hematoxylin is suitable for visualization of nuclei in tissue sections and cell preparations. This reagent contains alcohol and is ideal for use with all chromogens commonly used in immunohistochemical (IHC) applications. It may also be used for routine Hematoxylin and Eosin staining. Hematoxylin solutions contain haematein and a metal mordant.

Harris Hematoxylin is a regressive stain that requires an acid wash after the hematoxylin step. Slides are left in Hematoxylin solution for 8-10 minutes to stain the nuclei, followed by destaining with 1% acid alcohol for 2-3 seconds or a gentle dip. Then, keep the slides in running tap water or ammonia solution for bluing.

REAGENTS PROVIDED

PathnSitu's Harris Hematoxylin is a ready-to-use solution provided in 4 different pack sizes, i.e. 100ml, 500ml, 1L and 2.5L.

STORAGE AND HANDLING

Storage Recommendations: Store at Room Temperature. When stored at the appropriate conditions, the reagents are stable until expiry. **Do not use the reagents after the expiration date provided on the vial.**

To ensure proper regent performance, delivery, and stability, replace the dispenser cap after each use and immediately store the vials at the recommended conditions, keeping them away from sunlight and in an upright position.

During transport, short-term exposure to temperatures between 2-8 °C does not affect product performance.

SAMPLE PREPARATION

1. Deparaffinize and rehydrate the Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections using Xylenes, graded alcohols and water
2. Fix the cell smears in 95% alcohol prior to the staining procedure.

PRECAUTIONS

1. Normal precautions carried out in handling laboratory reagents should be followed
2. This product should be used by qualified and trained professional users only
3. Refer to Material Safety Datasheet for any updated risk, hazard or safety information.
4. The product contains alcohol and is classified as highly flammable, must be kept away from ignition sources.
5. Dispose of waste observing all local, state, provincial or national regulations.
6. Do not use reagents after the expiration date.
7. Use protective clothing and gloves, while handling the reagents.
8. Avoid contamination of reagents as it may lead to incorrect results.

Laboratory Use Only

STAINING PROCEDURE

1. Cover tissue sections or cell preparations for 8-10 minutes with Hematoxylin.
2. Rinse under tap water to remove excess reagent.
3. Place the slides in 1% acid alcohol for 2-3 seconds or a gentle dip.
4. Rinse the slides in running tap water for 2 minutes.
5. Place in bluing reagent (Alkaline solution, such as a weak ammonia solution, 0.08% in water) or running tap water until the stain is blue (approximately 60 - 120 seconds). Check under the microscope for optimal bluing.
6. Process slides for next step (either Eosin if the slide is for H&E or dehydration and/or mounting procedures).

PERFORMANCE CHARACTERISTICS

Harris Hematoxylin stains the cell nuclei in blue colour.

TROUBLESHOOTING

1. Follow the specific protocol recommendations according to the data sheet provided
2. Do not allow the section to dry out during the entire staining process
3. Gently mix all the reagents prior to use
4. Excessive or incomplete counterstaining may compromise the interpretation of the results.
5. Exhausted solutions will not be clear and bright. The colour will be rusty.
6. If unusual results occur, contact PathnSitu Technical Support at +91-40-2701 5544 or E-mail: techsupport@pathnsitu.com

LIMITATIONS AND WARRANTY

1. This product is intended for use only by authorised, trained, and qualified personnel.
2. A qualified and trained pathologist/personnel must interpret the results of the test.
3. Interpretation of test results must be made in conjunction with relevant background information and additional laboratory findings.
4. Always use the recommended volume and concentration of reagents to ensure complete coverage of the tissue section and to minimise the risk of false-positive or false-negative results.
5. Use appropriate buffers, instruments, consumables, and incubation conditions as recommended to achieve optimal staining performance.
6. It is strongly recommended to include known positive and negative controls when performing the test to ensure the validity of results.
7. The product has been validated on formalin-fixed, paraffin-embedded (FFPE) tissues. The end user must establish performance on other tissue types.
8. Unexpected results may occur in untested tissues due to inherent variability in tissue components.
9. False-positive reactions may occur due to insufficient washing, inappropriate protocol conditions, or other contributing factors.
10. Maintain the product under the recommended storage conditions to preserve reagent stability and performance.
11. Do not use reagents that appear cloudy, discoloured, or show signs of contamination. Discard any components showing signs of deterioration.
12. Further dilution of this solution may lead to suboptimal staining.
13. This product is intended for single-use application only. Once applied to a tissue section, reagents should not be recovered or reused, as this may compromise test integrity and specificity.
14. PathnSitu makes no warranties beyond those expressly stated in the product description.
15. PathnSitu shall not be liable for property damage, personal injury, time or effort, or economic loss arising from the use of this product.
16. Please refer to the complete datasheet for all instructions, precautions, and additional product limitations.
17. For detailed information and specifications on individual components, please refer to Product Material Safety Data Sheet (MSDS)

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BIBLIOGRAPHY

1. https://www.nottingham.ac.uk/pathology/protocols/harris.html
2. http://www.cpl.colostate.edu/pathology/protocols/harris.htm
3. https://www.itwreagents.com/itwreagents_files/info_points/IP-007/en_GB.pdf
4. https://www.nationaldiagnostics.com/histology/protocol/harris-hematoxylin-protocol

EXPLANATION OF SYMBOLS

Lot number / Batch number

Expiry

Storage limitation

RT **Room Temperature**

Date of manufacture

Catalogue number

Manufacturer address

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