

Hydrophilic Microscope Slides (45°)

Rev: 2025-02-2/1

IFU: PSM-ACF2004





Hydrophilic		REF	Volume
PATHOSAGE Trusted results MICROSCOPE SLIDES HYDROPHILIC (1) www.pathosage.com (2) Calar-Subge Genera (3) Calar-Subge Genera (4) Objected 47 (5) Mato in Spane	Availability	PSM-ACF2004U-0050	50 pcs/box
		PSM-ACF2004U-0072	72 pcs/box
		PSM-ACF2004U-0100	100 pcs/box

Intended use

Hydrophilic adhesion slides effectively prevent tissues from detaching from the slides during high-temperature antigen retrieval or enzyme digestion procedures. These slides are ideal for tissues requiring strong adhesion, thanks to their hydrophilic surface, which ensures an even distribution of water-based reagents. This improves staining quality, reduces false negatives, and minimizes background staining. By promoting uniform reagent coverage, hydrophilic slides enhance sample quality, leading to consistent and high-quality staining results, making it easier for pathologists and researchers to analyze samples accurately.

Specification

Glass material: super white glass frosted one end, one side **Bond:** Hydrogen bounds & dipole interaction (non-covalent)

Dimensions: 75x25x1mm

Color: Sage Green

Corner: 45°

Packaging: 50,72,100 pcs/box

Recommended for manual IHC staining, automatic IHC staining

Ideal for use in H&E staining for routine and frozen sections like fat section, brain section and bone section where require stronger adhesion

Recommend for thermal transfer printer, Inkjet printer, laser printer and permanent marker



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Materials Provided

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Materials Required but not Provided

The following materials are required but are not provided:

- 1- Slide Staining Jar & Basket
- 2- Coplin Staining Jar
- 3- Slide Dispenser
- 4- IHC Pen

Storage and Stability

Storage

- Protect the bottom of the carton from dampness.
- Keep dry.
- Avoid large variations in temperature during both storage and usage. Cooling of the product can cause condensation and lead to condensed water forming between the glasses.
- Slide storage periods is best use befor expire date.

Stability and Reactivity

Hydrolytic Resistance: Hydrolytic Class-HGB3 (ISO 719 or GB/T 6582)

Acid Resistance: Acid Class-H2 (DIN 116 12 or GB/T 15728) Alkali Resistance: Alkali Class-A2 (DIN ISO 695 or GB/T 6580)

Hazardous Decomposition: Stable

Materials to Avoid: Strong Hot Alkali Solutions (Hydrofluoric, Fluosilicic and Phosphoric)

Warnings and Precautions

- 1. Slides and cover glasses are ready to use and should not be reused.
- 2. Be aware of the possibility of harm when dealing with the slides and cover glasses, and take the corresponding safety measures, e.g. wearing gloves.
- 3. When using the slides and cover glasses in machines, the additional usage instructions from the manufacturer of the machinery should be followed.
- 4. When using dyes or other chemicals, please note the safety advice from the manufacturer.



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General Limitations

Immunohistochemistry (IHC) is a powerful tool in pathology and research, but it has inherent limitations that must be considered for accurate interpretation. Key limitations include:

1. Sample Collection and Fixation Issues

Delayed Fixation: If tissue is not fixed promptly (e.g., in formalin), protein degradation can occur, leading to antigen loss.

Overfixation: Prolonged fixation may mask epitopes, reducing antibody binding and causing false negatives.

Fixative Type: Some fixatives (e.g., alcohol) may not be suitable for certain antigens.

2. Antibody-Related Limitations

Low Specificity: Antibodies may exhibit cross-reactivity, binding non-target proteins and causing false positives.

Variable Sensitivity: Weak antigen expression may go undetected if the antibody lacks sufficient sensitivity.

Optimization Required: Antibody concentration, incubation time, and antigen retrieval methods (e.g., heat-induced or enzymatic) need optimization for each target.

3. Tissue Processing Artifacts

Paraffin Embedding Issues: Tissue shrinkage, folding, or loss during sectioning can affect staining quality.

Incomplete Dehydration: Poor processing may lead to uneven staining or high background noise.

4. Staining and Detection Challenges

Non-Specific Background: Endogenous enzymes (e.g., peroxidase) or endogenous biotin can cause false signals.

Weak or Faded Staining: Over-washing or improper chromogen/substrate use may reduce signal intensity.

Fluorescence Quenching: Fluorophore-labeled antibodies may fade under prolonged light exposure.

5. Interpretation and Reproducibility

Subjectivity in Scoring: Semi-quantitative results (e.g., 3/+2/+1/0+) depend on the observer's experience.

Batch-to-Batch Variability: Differences in antibody lots or staining protocols can affect reproducibility Tissue Heterogeneity: Uneven antigen distribution may lead to sampling bias.

LABEL AND BOX SYMBOLS



Explanation of the symbols of the product label and box:

6	Color	[]i	Refer to the instraction of use	†	Keep Dry
	Degree	2	Disposable	Ī	Fragile