



## TECHNICAL DATA SHEET



**Product Name:** AD-MOUNT H+DAPI (Hardening)

**Product Type:** Hardening mounting medium for fluorescence microscopy with nuclear counterstain

**Catalogue Numbers:** ADM-017 (1.5 ml), ADM-017-5 (5 × 1.5 ml)

**Intended Use:** Research Use Only (RUO)

### Description

AD-MOUNT H+DAPI is a hardening fluorescence mounting medium with integrated DAPI (4',6-diamidino-2-phenylindole) for rapid and reliable nuclear counterstaining. It preserves sample integrity and fluorescence intensity, while providing structural support for delicate biological samples. Ideal for confocal and widefield microscopy of cellular and tissue specimens requiring durable mounting and DNA visualization.

### Key Features

- Integrated DAPI: Enables fast, stable DNA counterstaining for nuclear imaging.
- Universal Fluorophore Compatibility: Effective for most common dyes including FITC, Cy3, Alexa Fluor® series, mCherry, and phalloidin.
- Hardening Formulation: Prevents dye diffusion and sample shift, excellent for hydrophobic labels.
- Structural Preservation: Maintains morphology of sensitive cytoskeletal and membrane structures.
- Refractive Index: 1.45, optimized for fluorescence applications.
- Convenient Use: Ready-to-apply liquid format, no preparation required.
- Stable Storage: Ensures consistent imaging quality for months post-curing.

### Limitations

May cause cell flattening due to hardening process—typical of curing media.

### Specifications

Parameter	Value
Form	Liquid (hardening) with DAPI
Refractive Index	1.45
Storage Temperature	+4 °C
Shelf Life	See expiration date on vial
Stability After Opening	Up to 12 months at +4 °C

*Note: AD-MOUNT H is manufactured under stable pH conditions.*

### Handling and Safety

- Do not freeze.
- Protect from light.
- Use clean tools to avoid contamination.
- For laboratory use only. Not for diagnostic use.

### Manufacturer

AD-MOUNT H+DAPI was developed by ADVI in collaboration with the Institute of Molecular Genetics of the Czech Academy of Sciences.

### General Optimized Procedure:

1. **Sample Preparation:** After completing the sample preparation process (fixation and staining), ensure to remove any remaining water from the sample. It's crucial to note that residual water can cause refractive index mismatches, resulting in significant spherical aberrations.
2. **Determining AD-MOUNT Volume:** Determine the appropriate volume of AD-MOUNT H to use. For direct mounting without spacers, use 1  $\mu\text{l}$  per 60  $\text{mm}^2$  of coverslip. For a standard 18 mm square coverslip, this equates to approximately 5  $\mu\text{l}$  of mounting medium. If using AD-SEAL spacers, the required volume will depend on the thickness of the spacers.
3. **Application of AD-MOUNT H:** Apply the determined volume of AD-MOUNT H onto the coverslip and mount it directly onto the microscopic slide glass.
4. **Additional Sealing:** using hardening mounting medium, the sealing is not necessary.

Following these steps will help ensure the best possible results when using AD-MOUNT H. Always handle AD-MOUNT H and all associated materials with care to prevent damage and maintain the integrity of your samples.

Please remember to adapt this procedure based on your actual product's specifications and intended uses.

Explore ADVI step-by-step protocols on the VIDEO PROTOCOLS: From Washing to Mounting

<https://www.advi-web.com/en/category/advi-edu/washing-mounting/>

