



## TECHNICAL DATA SHEET



**Product Name:** AD-MOUNT S (Superior)

**Product Type:** Non-hardening fluorescence mounting medium for advanced imaging

**Catalogue Numbers:** ADM-005 (1.5 ml), ADM-005-5 (5 × 1.5 ml)

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

### Description

AD-MOUNT S is a non-hardening mounting medium offering superior long-term stabilization of fluorescence signals. It is designed for demanding applications in fluorescence microscopy, particularly for super-resolution methods such as SIM and STED. This ready-to-use formulation effectively minimizes photobleaching, preserves sample structure, and reduces flattening artifacts.

### Key Features

- **Superior Stability:** Ensures long-term preservation of synthetic dye fluorescence.
- **Ready-to-Use:** Supplied in liquid form with no need for dilution.
- **Structure-Preserving:** Minimizes sample compression and flattening.
- **Super-Resolution Ready:** Ideal for SIM, STED, and other advanced fluorescence techniques.
- **Spacer-Compatible:** Suitable for use with AD-SEAL spacers when mounting large or fragile samples such as organoids or oocytes.
- **Fixation Compatibility:** Compatible with formaldehyde and methanol-fixed samples.
- **Microscopy Modes:** Suitable for widefield, confocal, and super-resolution fluorescence microscopy.

### Limitations

AD-MOUNT S contains n-Propyl Gallate (nPG), which may quench the fluorescence of certain

proteins such as GFP. Its compatibility with protein-based fluorophores should be verified experimentally.

### Specifications

Parameter	Value
Form	Liquid
Refractive Index	1.47
Storage Temperature	+4 °C
Shelf Life	See expiration date on vial
Stability After Opening	Up to 12 months at +4 °C

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

### Handling and Safety

- Do not freeze.
- Protect from light exposure.
- For laboratory use only. Not for diagnostic or therapeutic purposes.

### Manufacturer

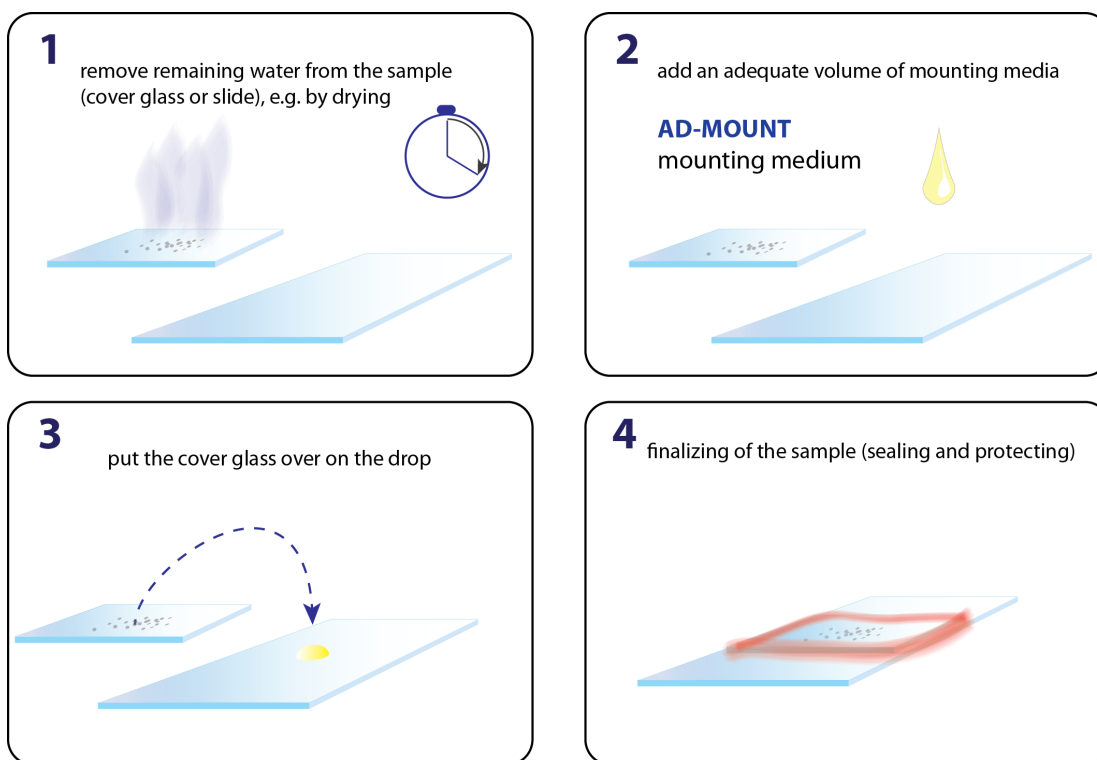
AD-MOUNT S was developed by ADVI in collaboration with the Institute of Molecular Genetics of the Czech Academy of Sciences.

### 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 S 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 S:** Apply the determined volume of AD-MOUNT S onto the coverslip and mount it directly onto the microscopic slide glass.
4. **Additional Sealing:** If AD-SEAL spacers aren't being used, additional sealing is necessary to fix and protect the cover glass on the slide.

Following these steps will help ensure the best possible results when using AD-MOUNT S. Always handle AD-MOUNT S 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.



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

