



TECHNICAL DATA SHEET



Product Name: AD-MOUNT C (Clear)

Product Type: Non-hardening high-refractive mounting medium for super-resolution microscopy

Catalogue Numbers: ADM-009 (1.5 ml), ADM-009-5 (5 × 1.5 ml)

Intended Use: Research Use Only (RUO)

Description

AD-MOUNT C is a non-hardening mounting medium optimized for high and super-resolution fluorescence microscopy. Its high refractive index (1.518) minimizes spherical aberration and ensures uniform optical performance across the entire sample. The clearing effect of AD-MOUNT C improves sample transparency, enabling detailed visualization of biological structures. It also stabilizes synthetic fluorescent dyes and reduces photobleaching and signal fading.

Key Features

- High-Refractive Index: 1.518, optimized for super-resolution imaging.
- Clearing Effect: Enhances transparency and minimizes light scattering in thick samples.
- Super-Resolution Ready: Ideal for SIM, STED, and other high-end microscopy methods.
- Ready-to-Use: Supplied in liquid form, no preparation needed.
- Spacer-Compatible: Use with AD-SEAL spacers to mount large or delicate samples like organoids or embryos.
- Fixation Compatibility: Suitable for formaldehyde and methanol-fixed samples.
- Microscopy Modes: Designed for widefield, confocal, and super-resolution fluorescence microscopy.

Limitations

AD-MOUNT C contains 2,2'-Thiodiethanol (TDE), which can quench the fluorescence of protein-based labels such as EGFP and SiR dyes. It is not recommended for use with fluorescent proteins unless compatibility is tested in advance.

Specifications

Parameter	Value
Form	Liquid
Refractive Index	1.518
Storage Temperature	+4 °C
Shelf Life	See expiration date on vial
Stability After Opening	Up to 12 months at +4 °C

Note: AD-MOUNT C 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

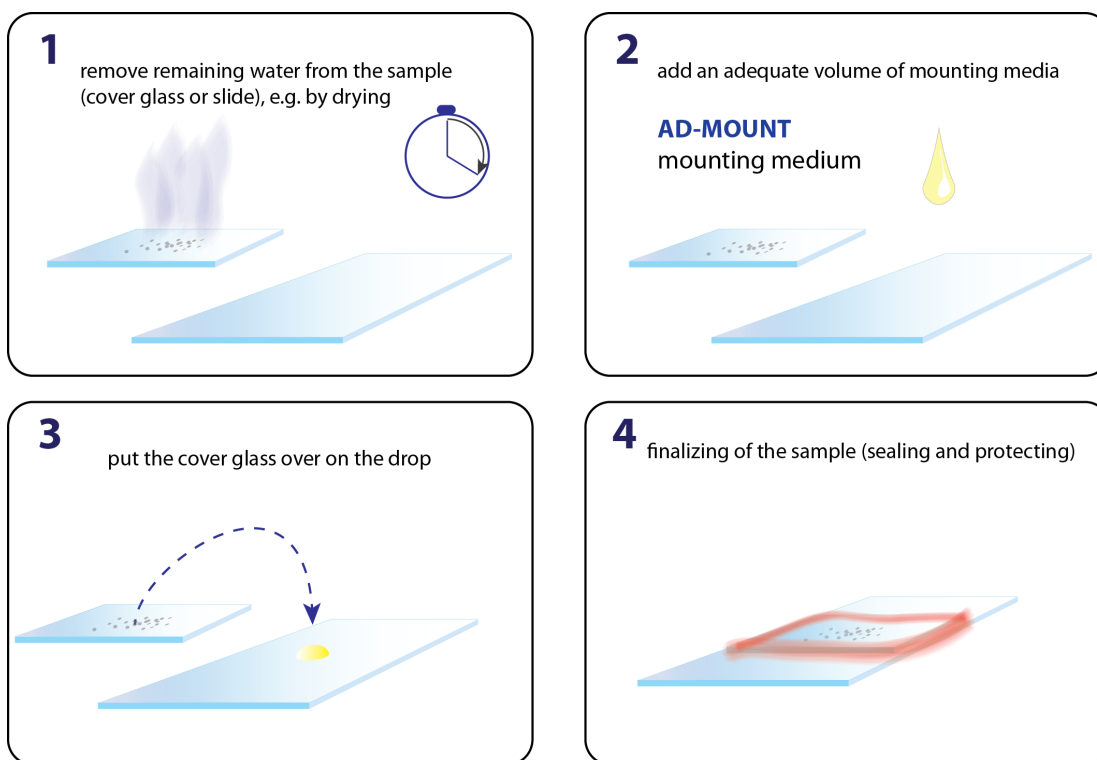
AD-MOUNT C was developed by ADVI in collaboration with the Institute of Molecular Genetics of the Czech Academy of Sciences.

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 C to use. For direct mounting without spacers, use 1 μl per 60 mm^2 of coverslip. For a standard 18 mm square coverslip, this equates to approximately 5 μl of mounting medium. If using AD-SEAL spacers, the required volume will depend on the thickness of the spacers.
3. **Application of AD-MOUNT C:** Apply the determined volume of AD-MOUNT C 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 C. Always handle AD-MOUNT C 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/>

