TECHNICAL DATA SHEET



Product Name: AD-MOUNT S+DAPI (Superior)

Product Type: Non-hardening fluorescence mounting medium with nuclear counterstain for advanced imaging

Catalogue Numbers: ADM-007 (1.5 ml), ADM-007-5 (5 × 1.5 ml)

Intended Use: Research Use Only (RUO)

Description

AD-MOUNT S+DAPI is a non-hardening mounting medium designed for advanced fluorescence microscopy, including super-resolution techniques. This ready-to-use formulation offers superior long-term stabilization of fluorescence signals and includes DAPI (4′,6-diamidino-2-phenylindole) for immediate nuclear DNA staining. The medium minimizes photobleaching, preserves sample integrity, and maintains structural morphology—even in fragile 3D samples.

Key Features

- Contains DAPI: Enables convenient nuclear counterstaining for DNA visualization in fixed samples.
- Superior Stability: Provides exceptional preservation of synthetic dye fluorescence over time.
- Ready-to-Use: Liquid format—no mixing or dilution required.
- Structure-Preserving: Minimizes sample compression and flattening.
- Super-Resolution Ready: Suitable for SIM, STED, and advanced imaging techniques.
- Spacer-Compatible: Designed for use with AD-SEAL spacers for mounting thick or fragile samples
- Fixation Compatibility: Tested with formaldehyde and methanol-fixed samples. No known incompatibilities.
- Microscopy Modes: Ideal for widefield, confocal, and super-resolution fluorescence microscopy.

Limitations

This product contains n-Propyl Gallate (nPG), which may quench the fluorescence of certain protein-based fluorophores such as GFP. Compatibility with protein fluorophores should be validated 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+DAPI was developed by ADVI in collaboration with the Institute of Molecular Genetics of the Czech Academy of Sciences.

ADVI, s.r.o.

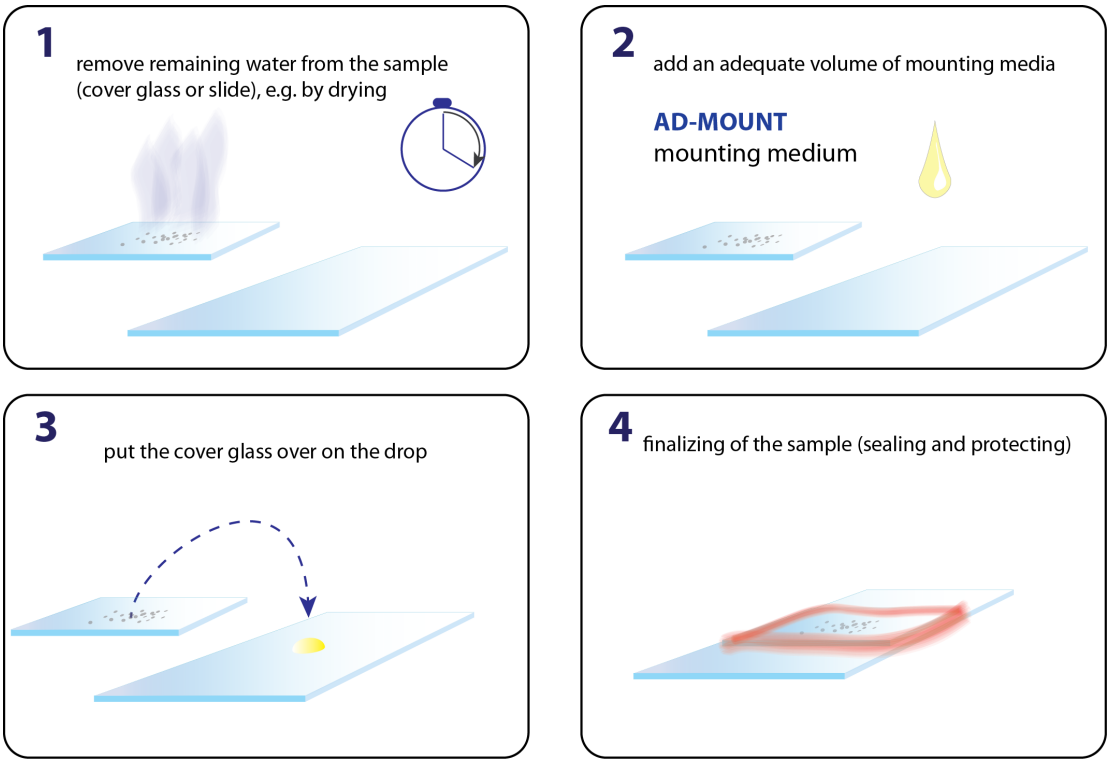
Voděradská 2552/16, Říčany, CZ-25101
VAT ID: CZ17104505
web: advi-web.cz
email: sales@advi-web.cz

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 µl per 60 mm² 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 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.



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/