TECHNICAL DATA SHEET

Product Name: AD-MOUNT H (Hardening)

Product Type: Hardening mounting medium for fluorescence microscopy

Catalogue Numbers: ADM-016 (1.5 ml), ADM-016-5 (5 × 1.5 ml)

Intended Use: Research Use Only (RUO)

Description

AD-MOUNT H is a hardening, universal mounting medium optimized for fluorescence microscopy. This ready-to-use formulation provides exceptional photostability and minimizes signal fading. It preserves fine biological structures and supports long-term storage without diffusion of hydrophobic fluorophores. Especially suitable for labeling fragile cytoskeletal elements such as phalloidin-stained actin.

Key Features

- Universal Compatibility: Suitable for a broad range of fluorophores including FITC, Cy3, Alexa Fluor® dyes, mCherry, and phalloidin-conjugates.
- Hardening Seal: Forms a durable, cured layer to protect against dehydration and sample movement.
- Preserves Fine Structures: Maintains architecture of fragile or membrane-associated features.
- Refractive Index: Optimized at 1.45 for fluorescence imaging.
- Ready-to-Use: Pre-formulated liquid, no mixing required.
- Long-Term Stability: Retains fluorescence signal and sample morphology over months.

Limitations

May induce partial flattening of cells or soft tissues, a common effect of hardening media.

Specifications

Parameter	Value
Form	Liquid (hardening)
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 was developed by ADVI in collaboration with the Institute of Molecular Genetics of the Czech Academy of Sciences.

ADVI, s.r.o.

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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 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 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/