

PRODUCT DATASHEET



AD-MOUNT CLEAR

*Non-hardening mounting medium fluorescence microscopy, high refractive index, clearing effect, excellent stability.
Optimized for high-resolution and super-resolution microscopy.
For research use only.
Ready-to-use.*

AD-MOUNT C is a non-hardening mounting medium optimized for high and super-resolution fluorescence microscopy. Its **high refractive index** ($n=1.518$) minimizes spherical aberration, ensuring a constant point spread function (PSF) throughout the entire mounted sample. The **clearing effect** of the mounting medium provides excellent transparency of the mounted sample, allowing for a clear view of the biological structures. This ready-to-use medium stabilizes the signal of synthetic fluorescence dyes, reducing photo-bleaching and fluorescence fading.

To ensure the preservation of fragile biological samples, we recommend using **AD-MOUNT C** in combination with **AD-SEAL** spacers of appropriate thickness. This helps to maintain the shape of the sample and protects against possible flattening. Additionally, this combination is highly recommended for mounting large, fragile objects such as oocytes, organoids, or early embryos.

The medium contains TDE (2,2 -Thiodiethanol) and therefore it is NOT suitable for samples expressing fluorescent proteins. While this medium is effective at stabilizing fluorescence from synthetic fluorescent dyes, it is not suitable for samples expressing fluorescent proteins such as EGFP, as the fluorescence signal is lost.

Reagent volume: 1.5 ml (Cat. No.: ADM-009), 7.5 ml (Cat. No.: ADM-010)

Form: Liquid

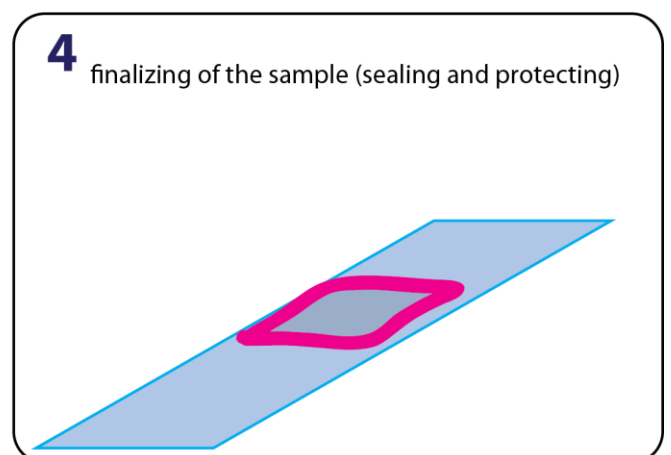
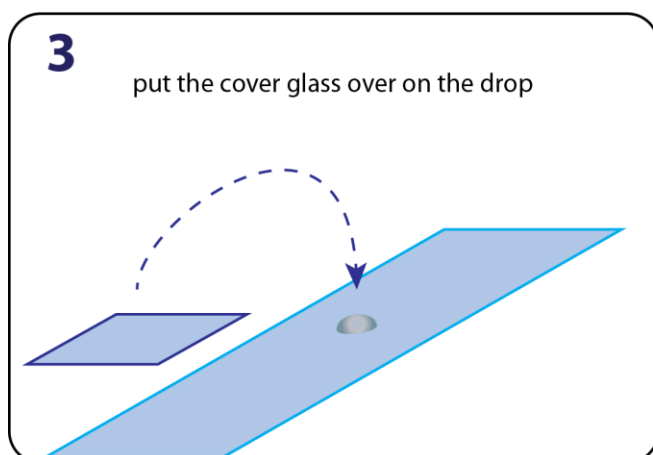
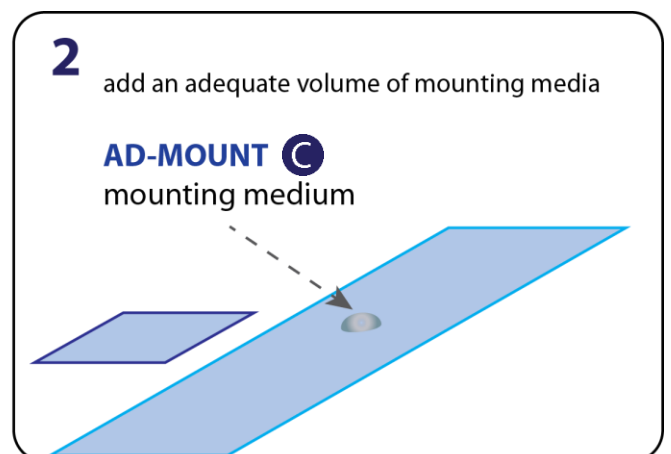
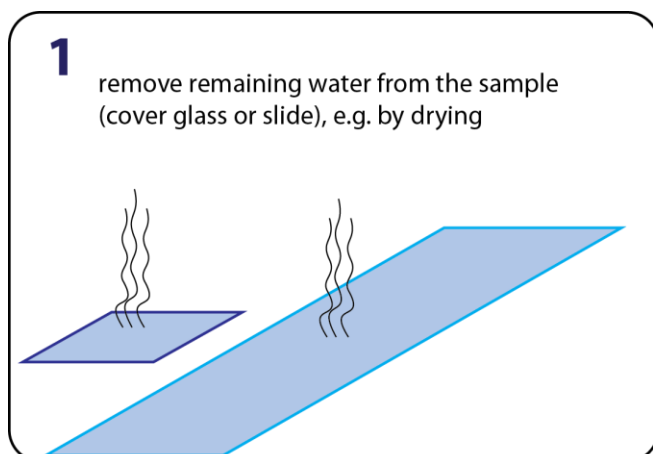
Storage instructions: Store at +4°C. Do not freeze

Period After Opening (PAO): 12 months

AD-MOUNT C was developed in a collaboration between ADVI, s.r.o. and the Institute of Molecular Genetics of the Czech Academy of Sciences.

Optimized Procedure:

1. After completing the sample preparation process (fixation and staining), remove any remaining water from the sample. It is important to note that residual water can cause refractive index mismatches that result in serious spherical aberrations.
2. Determine the appropriate volume of **AD-MOUNT** to use. For direct mounting without spacers, use 1 ul per 60 mm² of coverslip. For a standard 18 mm square coverslip, this would be approximately 5 ul of mounting medium. If using spacers, the required volume will depend on the thickness of the spacers.
3. Place the determined volume of **AD-MOUNT** onto the coverslip and mount it directly onto the microscopic slide glass.
4. If you do not use the **AD-SEAL** spacers, it is necessary then to fix and protect the coverglass on the slide by additional sealing.



Note: This procedure is a general recommendation and may need to be optimized for individual laboratory procedures.