

AMYLAMINE

Product No. 19001

DESCRIPTION:

Amylamine, also known as Pentylamine, 1-Aminopentane, or n-Amylamine, is used in glow discharge treatment to make hydrophobic, positively charged surfaces. This can be achieved by including filter paper with drops of Amylamine applied into the glow discharge chamber prior to running the glow discharge protocol. For this to be effective, care must be taken to avoid pumping too much of the Amylamine vapor away.

Amylamine Glow Discharge Treatment Using PELCO EasiGlow™:

1. Place grids on a clean glass slide, support film side up, in the chamber in the center of the stage.
2. Place a small piece of filter paper in the chamber alongside the glass slide.

NOTE: A small glass vial can be used in place of filter paper

3. Pipette 1-3 drops (~50µL each) of Amylamine onto the filter paper.
4. Place glass chamber and run glow discharge protocol. The Amylamine will result in a change in the color of the plasma (blue) as compared to treatment with air (violet).

NOTE: Polarity must be set to POSITIVE but settings for current, glow time, etc. can be adjusted as needed

5. After treatment, store grids in a clean glass petri dish and use within 1 hour.
6. Discard the filter paper and clean inner surfaces of glow discharge chamber with 70% ethanol and lint-free cloth.

NOTE:

- Amylamine is a highly volatile compound, using too much will cause the instrument to have difficulty getting down to proper vacuum. Users may need to optimize their protocol by either by adjusting the volume of Amylamine used and/or settings such as the time to reach ultimate pressure or stabilization time. Please refer to the PELCO EasiGlow™ user manual for instructions on how to adjust these settings.