

TECHNICAL DATA SHEET 777

Mowiol® 4-88

DESCRIPTION

Mowiol® 4-88 is a high quality mounting medium for immunofluorescence and molecular biology applications. Mowiol® 4-88 can be made an anti-fade medium through the addition of p-phenylenediamine (PPD).

PREPARATION OF MOWIOL COVERSIP MOUNTING SOLUTION FOR FLUORESCENCE MICROSCOPY

Conversions:

- 0.79 ml glycerol = 1 g
- Density of glycerol = 1.261 g/cm³
- 6gm glycerol divided by 1.261gm/cm³ = 4.75 ml

These protocols are offered as guides. Researchers are advised to optimize the use of Mowiol in any application.

1. Pour 4.75 ml glycerol in a 50ml plastic centrifuge tube with a small stir bar.
2. Add 2.4g Mowiol; stir to mix.
3. While stirring, add 6 ml distilled water and allow to sit for 2 hours at room temperature.
4. Add 12ml 0.2 M Tris buffer (pH 8.5).
5. *Optional: add a small amount of NaN₃ (sodium azide) such that the final concentration is 0.02%. NaN₃ acts as a preservative but should be used with caution as it considered a hazardous substance.*
6. Incubate the centrifuge tube in a waterbath (50-60°C) for 10 minutes to dissolve solids. *This can be incubated over several hours, if necessary.*
7. Once dissolved, centrifuge the solution at 4000-5000 rpm for 15 minutes.
8. Carefully remove supernatant and prepare 1 ml aliquots in microcentrifuge tubes.
9. Store at 4°C for up to 1 month. Store aliquots at -20°C for long term storage.
10. Warm tubes to room temperature before use. Discard if any crystalline material is seen in the tube or on the slides after preparing.

Note: *Leave coverslipped slides in the dark overnight to harden before visualization under the microscope. This solution hardens in up to 12 hours to overnight after slide preparation; no additional sealant required.*

PREPARATION OF A 0.1% AQUEOUS (ANTIFADE) SOLUTION USING PPD

Note: *PPD is carcinogenic and should be handled with care.*

1. Obtain tube containing 1 ml aliquot of Mowiol prepared above.
2. If frozen, allow to thaw.
3. Add 1 part PPD to 9 parts Mowiol.
4. Aliquot and freeze in 1 ml microcentrifuge tubes. **Protect from light.**

Note: *Discard any solution that becomes discolored (i.e. pink/brown)*

STORAGE AND STABILITY

Store aliquots at -20°C. Stable for up to twelve months. Once defrosted, opened tubes can be stored at 4 °C for approximately one month.

SAFETY

This particle suspension contains sodium azide. Sodium azide may react with lead and copper plumbing to form explosive metal azide. Upon disposal of material, flush with a large volume of water to prevent azide accumulation. Please consult the Safety Data Sheet for more information.

ORDERING INFORMATION

Cat. #	Description	Size
17951	Mowiol® 4-88	500 g, 1 kg

In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
In The U.S. Fax: 1(800) 343-3291 • (215) 343-0214

In Germany Call: + (49) 6201 845 20 0
In Germany Fax: + (49) 6201 845 20 20

In Asia Call: (886) 2 8712 0600
In Asia Fax: (886) 2 8712 2677

Order online anytime at www.polysciences.com

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