

Embedding Media

Materials required

Poly/Bed[®] 812 (Replacement for Epon[®] 812, Polysciences Inc., CAT #08791)

Nadic Methyl Anhydride(NMA, epoxy hardener, Polysciences Inc., CAT #00886)

Dodcenylsuccinic Anhydride (DDSA, epoxy hardener, Polysciences Inc., CAT #00563)

DMP-30 (curing catalyst, Polysciences Inc., CAT #00553)

Note: the above reagents are now available as a kit:

Poly/Bed[®] 812 (Luft formulations) Embedding Kit/DMP-30 (Polysciences Inc., CAT #08792)

Magnetic stir plate and bar

100 ml beaker

10 ml syringes (Electron Microscopy Sciences, CAT #72510)

Prepare in hood

1. Combine the following ingredients on a magnetic stir plate:

20.4g Polybed 812

9.4g Nadic Methyl Anhydride

13.0g Dodcenylsuccinic Anhydride

0.7g DMP-30

2. Stir well.

3. Put the mixture into 10 ml syringes (it makes approximately 42 ml).

4. Wrap the syringes with foil, label with contents, date, and initials.

5. Store at -20°C .

To use

1. Remove a syringe from the freezer about 30 minutes prior to use.

2. Use this mixture to make $\frac{1}{2}$ and $\frac{1}{2}$ (half propylene oxide/ half embedding media) also.

3. Return any unused portions to -20°C .

Please note: This embedding media is inadequate for embedding onto coverslips. It's too soft for that and it's hard to remove the coverslips after hardening.