SPI-PON ARALDITE KIT USE INSTRUCTIONS

SPI Supplies
206 Garfield Avenue,
West Chester, PA 19380, USA

SPI-PON Araldite Kit #02635

The combination of different embedding resins has become popular lately because it blends the best qualities of each individual' resin into one.

In 1964, Mollenhauer developed an Araldite-Epon (SPI-Pon 812) mixture for embedding plant tissue, with particular interest in preserving plant cell wall. It has also been successful with animal tissue. Sectioning with this mixture of resins has been proven to be easier than with each individual resin and the thermal stability of Araldite and the image contrast of SPI-Pon 812 has made this a very successful blend.

RECOMMENDED MIXTURE AND PROCEDURE

SPI-PON 812	25 ml
Araldite 6005 DDSA	15 ml
DDSA	55 ml
DMP-30	1.5% or 1.4 ml (added just prior to use)

DEHYDRATION:

Dehydrate tissue in ethanol followed by propylene oxide.

INFILTRATION:

1. Place tissue in a 2:1 ratio of solvent (propylene oxide or acetone) to resin mixture (with accelerator), 1 hour at room temperature.
2. Place tissue in a 1:2 ratio of solvent to with accelerator, 1 hour at room temperature.
3. Place tissue in 100% resin mixture with accelerator in acids, 2-4 hours at room temperature then in an oven 40-80 unit hard, about 12 hours.

REFERENCES:

Mollehauer, H.H., Stain Technology, 39:111 (1964), Hayat) M.A., Principals and Techniques of E.M., V.I, 2nd Edition, University Park Press, Baltimore 1981.

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