

## TECHNICAL DATA SHEET 305

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### *LR White and LR Gold*

#### *Single Component Embedding for Light and EM*

LR White and LR Gold are both easy to use, single component embedding media which provide improved morphological definition and immunocytochemistry for Light and Electron Microscopy sections.<sup>1-8</sup> LR White may be used at ambient temperature, with the addition of an accelerator, or direct from the bottle and heat cured at 60° for 24 hours. LR Gold is designed for photo polymerization at -25°C for maximum preservation of immunohistochemical features, but may also be used at room temperature. A photo catalyst is used regardless of temperature.

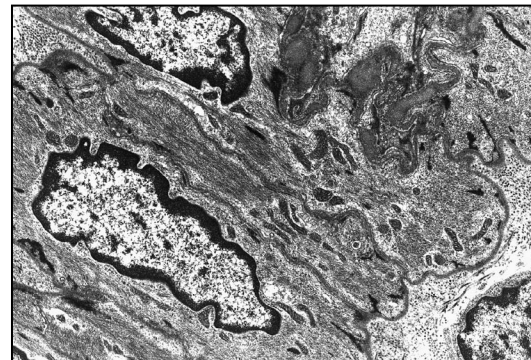
LR Resins are supplied as a blend of hydrophilic acrylic monomers which exhibit extremely low viscosity (8cps) for rapid and thorough penetration. Lipid extraction from tissue and degradation in the electron beam are minimal.

Because of its "special hydrophilic" nature, immunochemicals and anti-bodies easily permeate the LR resins to reach tissue binding sites.

Sections may be cut equally well at 1-5 $\mu$  and also ultra thin for EM work. Thick sections accept and demonstrate brilliant histologic stains without pre-treatment or changes in methods.

LR White and Gold are stable for one year when stored at 4°C. Do not store at room temperature. Thin sections are prepared as for epoxy resin and have excellent EM beam stability. These resins have low toxicity, require no hazardous mixing, and can be used directly from alcohol dehydrants.

These embedding media are less costly than most conventional epoxies because there is no waste or mixing errors incurred. Detailed instructions will be provided with each resin order.



*Hamster intestine embedded in LR White resin. (X18,000)  
Conventionally processed and stained.*

**Ordering Information:**

Catalog #17411	LR White	500ml
Catalog #17412	LR Gold	500ml
Catalog #17413	Accelerator for LR White	10ml
Catalog #17181	dl-Camphoroquinone	10g
		50g
Catalog #01051	Poly(vinyl pyrrolidone) MW 40,000	250g
		1kg
Catalog #01946	Benzil	25g
Catalog #00425	Benzoin methyl ether	100g
Catalog #04018	Formaldehyde, methanol free, 10% ultrapure	1qt
		4x1qt
Catalog #16672	Tissue-Tack Adhesive	100ml
		500ml
Catalog #08381	Poly-Mount	1qt
Catalog #16643B	Molding Cup Tray - 20 cavities, 12W x 16L x 5H mm	1 ea

Please see our catalog for additional products listed in these procedures.

**To Order:**

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) 6221-765767

In Germany FAX: (49) 6221-764620

**References:**

1. Newman, G.R., et al., The preservation of ultrastructure and antigenicity. *J. Microscopy*, **127**, RP5-RP6, (1982).
2. Warner, T.F., et al., *Histotechnology*, **9**, 13 (1986).
3. Smith, Z., D., J., et al., *J. Histochem. & Cytochem.*, **36**, 311 (1988).
4. Matsuno A, et al., *Histochem J.* **30**(2): 105-9 (1998).
5. Al-Hazzaa AA, et al., *Histochem J.* **30**(12): 897-902 (1998).
6. Newman, G.R., *Histochem J.* **31**(1): 79 (1999).
7. Thorpe JR, *Methods Mol Biol.* **117**: 99-110 (1999).
8. Goping G, et al., *J. Histochem. & Cytochem.*, **47**(4): 561-8 (1999).

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