



Stereo Zoom Microscope

The Z850 Stereo Zoom Microscope, when used in conjunction with the Planar Lipid Bilayer Workstation, is an ideal instrument for viewing the formation of bilayer membranes. The included boom stand permits the device to be positioned within the cage during use and then swung out of the way after the membrane has stabilized. The microscope can be mounted both vertically or horizontally for diverse applications. A binocular version lacking the camera c-mount is also available.

The rugged boom stand features a 14.3" chrome steel vertical post and a 20.4" horizontal bar. The 42 lb, 10" x 10" rectangle metal base assures positive stability. The locking collars prevent accidental slippage on the horizontal and vertical poles.

The Z850 has a drift free focusing range of 11.5 cm. See pages 338-341 for more details.

Stirbars

Replacement **stirbars** (magnetic fleas) are available for the BCH Series bilayer chambers. Stirbars are Teflon coated and are available in two sizes. Stirbars are sold in packages of 5 each and come in 2 x 7 mm and the more difficult to find 2 x 5 mm sizes.

Glass Capillary Tubing

Glass capillary tubing has gained favor among bilayerologists as the preferred tool for applying lipids to the aperture in the bilayer cup. The advantages of this approach (as compared to Sable hair brushes) are durability and the ability to sterilize the applicator between uses. Glass tubing from Warner Instruments has been chosen with dimensions that facilitate this use. The 1.5 mm OD and 15 cm length of this thick-walled tubing make for good quality glass applicators.



Power Line Conditioning

An often overlooked source of noise in electrophysiological recording is that introduced by fluctuations in the power circuit supplying the apparatus. Many labs are placed on upper floors in large research facilities where the power circuit is shared by many other labs. While most instrumentation used in BLM work are designed to compensate for variances in the power circuit, these effects cannot be completely abolished in a distributed network of components.

An elegant solution to this problem is provided by the use of an isolation transformer to supply power to the entire Workstation. The ON-750 Power Line Conditioner is a two-sided device wherein one side connects to the institutionally supplied power and the other, isolated, side connects to the BLM Workstation. This configuration results in the presentation of a stable power source to the Workstation which abolishes noise artifacts introduced from varying loads on the "house circuit".

Order #	Model	Product
W4 64-0067	BLM-ST	Bilayer Starter Kit
W3 64-1803	Z850	Stereo Zoom Microscope with Boom Stand without Camera C-Mount
W4 64-1805	Z850	Stereo Zoom Microscope with Boom Stand and Camera C-Mount
W4 64-0069	ON-750A-US	Power Line Conditioner for 120 VAC/60 Hz
W4 64-0073	ON-750A-EU	Power Line Conditioner for 220 VAC/60 Hz
W4 64-0772	G150-4	Capillary glass 1.5 mm OD
W4 64-1327	WA10-5	Silver wire, 10 cm long, 0.25 mm dia, with 1 mm pin, 2 pack
W4 64-0420	MAG-13	2 x 5 mm Stirbars for 13 mm Chambers and Cuvettes (pkg. of 5)
W4 64-0421	MAG-22	2 x 7 mm Stirbars for 22 mm Chambers and Cuvettes (pkg. of 5)