VECTOR LABORATORIES

PRODUCT INFORMATION

Product VECTASHIELD® Hard•Set™ Mounting Medium with TRITC-phalloidin

Catalog No. H-1600

Amount 10 ml

Concentration of TRITC-phalloidin 0.2 µg/ml

Storage Conditions Refrigerate in the dark

VECTASHIELD® Hard•Set™ Mounting Medium preserves fluorescence and hardens after coverslipping. VECTASHIELD® Hard•Set™ Mounting Medium's unique, stable formula prevents rapid photobleaching of fluorescent proteins and fluorescent dyes (see website for compatibility).

This special formulation of VECTASHIELD® Hard•Set™ Mounting Medium contains TRITC-phalloidin. Phalloidin is a bicyclic heptapeptide that specifically binds at the interface between the F-actin subunits. Fluorescent derivatives of phalloidin are used to stain actin filaments. TRITC (tetramethylrhodamine) is excited at 544 nm and emits at 572 nm, producing an orange-red fluorescence.

VECTASHIELD® Hard•Set™ Mounting Medium is supplied in a bottle fitted with a screw cap. A cap fitted with a drop dispenser pipet is also included. The screw cap can be replaced with the drop dispenser cap for routine use and during storage. Once the drop dispenser cap has been secured on the bottle, the bottle should be stored in an upright position.

To mount tissues or cells on a slide, dispense VECTASHIELD® Hard•Set™ Mounting Medium onto the specimen. The pipet supplied with the product is designed to deliver small drop volumes of approximately 25 µl. Coverslip and allow VECTASHIELD® Hard•Set™ Mounting Medium to disperse over the entire specimen.

After approximately 15 minutes at room temperature, the coverslip will become immobilized, and optimal antifade ability and refractive index will be achieved. After curing at room temperature for 15 minutes, slides can be placed at 4 °C, and the mounting media will harden completely overnight. Mounted slides should be stored at 4 °C or -20 °C, protected from light. For prolonged storage, -20 °C is recommended. If retraction occurs during prolonged storage, remove coverslip and remount. Coverslips can be easily removed after hardening by soaking in PBS overnight.

(over)

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Notes:

It is possible to get both cytoskeletal and nuclear counterstaining by mixing this mounting media with VECTASHIELD® Hard✦Set™ with DAPI (H-1500) at a 1:1 ratio. DAPI is a nuclear dye that is excited at 360 nm and emits at 460 nm, producing a blue fluorescence. Mix gently to avoid producing bubbles in the mixture and apply to the specimen as described above.

When mounting thick sections, adjustments to the mounting protocol may be required.

Note: Phalloidin is a toxin and should be handled with care.

VECTASHIELD® Mounting Media Products:

Product	Counterstain	Cat. No.	Unit Size	Hardening	Refractive Index*
VECTASHIELD® Mounting Medium	none	H-1000	10 ml	no	1.45
	DAPI	H-1200	10 ml	no	1.45
	PI	H-1300	10 ml	no	1.45
VECTASHIELD® Hard✦Set™ Mounting Medium	none	H-1400	10 ml	yes	1.46
	DAPI	H-1500	10 ml	yes	1.46
	TRITC-Phalloidin	H-1600	10 ml	yes	1.46

**Measured at room temperature. VECTASHIELD® Hard✦Set™ Mounting Medium measured after hardening.*