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Aerospray[®] Hematology Slide Stainers

459 SOUTH MAIN STREET LOGAN, UTAH 84321 USA 435 752 6011 • 800 453 2725 FAX 435 752 4127



INSTRUCTIONS

Hematology Reagent Concentrate System

Intended Use

The SS-135/149 concentrate system is a series of concentrated hematology reagents for staining specimens with the Wescor Aerospray Hematology Slide Stainer. SS-135/149A, B, and C kits include all the ingredients you'll need to prepare standard hematology (135 series) or Basofix[™] (149 series) stains. There will be unused items which may be discarded when making SS-135/149A or C stain (e.g., the SS-135S vial is not needed for Basofix A or C).

Description

Wescor reagents provide optimum performance with your Aerospray slide stainer. The reagent concentrate system delivers the quality and performance of our standard prepared reagents in a smaller package. Reagent concentrates offer lower cost, less shipping expense, and reduced storage space. You can use diluted reagent concentrates immediately after mixing. The concentrated reagent can be diluted to make SS-135 or SS-149 reagents as shown in the table on page 3. The Basofix reagents (SS-149 series) are used with the basofix quick dip fixative (SS-049P or SS-149P) to stabilize the basophil granules which otherwise dissolve in the aqueous reagents.

Concentrates

Diluted concentrates (SS-135/SS-149 series) are interchangeable with prepared reagents (SS-035 and SS-049 series). As with the prepared Basofix reagents, the standard Hematology blue stain, SS-135/149 is used in both staining systems. You must also supply anhydrous methanol (SS- MeOH or equivalent) on the reagent D line for the automatic clean cycle. See *Instructions Basofix*TM *Hematology Reagent System* (Wescor publication number IS9) for proper use of diluted Basofix concentrates.

For Convenient mixing and storage, we recommend a 4.5 liter space-saver container and dispensing spigot for each reagent. We also offer a 4.5 liter reagent bottle assembly that allows you to connect the 4.5 liter reagent container directly to the slide stainer. The SS-135/SS-149 concentrate system includes following items from Wescor:

Catalog Number	Description
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AC-038	4.5 liter Space- Saver Container with lid (5 liter capacity)
AC-039	Dispensing Spigot for Space-Saver Container
AC-043	500 mL Reagent Bottle with lid (empty)
AC-048	4.5 liter Reagent Bottle Assembly with pickup tube (5 liter capacity)
SS-135/149A	Rinse Concentrate, 135 mL will dilute to 4.6 liters Reagent A, Rinse
SS-135/149B	Blue Stain Concentrate, 135 mL will dilute to 4.6 liters Reagent B, Blue Stain
SS-135/149C	Red Stain Concentrate, 135 mL will dilute to 4.6 liters Reagent C, Red Stain
SS-149P	Basofix Pre-dip Concentrate, 15 mL will dilute to 515 mL Basofix Pre-dip
	Fixative
SS-135S	Surfactant, one vial must be added to SS-135A, B, C and SS-149B
	(Do Not Add to SS-149C or SS-149 A)

Instructions

Warning! These reagents contain moderately toxic chemicals that require care in handling. Always use appropriate safety measures including gloves and eye protection when handling reagents. Refer to Material Safety Data Sheets (MSDS) for more information.

1 Prepare Container

For Basofix Pre-dip Fixative, use the 500 mL round bottle provided. For Reagents A,B, and C use a clean, empty container with 5 liter capacity. We recommend the space-saver container mentioned on page 1. If you notice any debris or precipitated reagent from previous use, clean the container before proceeding. Remove the dispensing spigot or cap and turn the container so it's spout is upright.

Note: To prevent microbial growth, disinfect bulk reagent containers monthly. Fill the container with a one-tenth dilution of household bleach. Let stand for 10 minutes, then rinse throughly with deionized water.

2 Add Solvents and Concentrates

Add solvents and concentrates to their containers in the order and quantities listed below:

Caution! To prevent damage to the stainer, **never** use denatured alcohol containing ketones.

Note: Do not allow the surfactant (SS-135S) to contact undiluted reagent concentrate- Precipitates will form.

Reagent Desired	Filtered, Deionized Water (0.2 micron filter, minimum 200,000 ohms resistivity)	Anhydrous, Reagent- Grade SD3A Ethanol	Anhydrous, Reagent- Grade Methanol	Reagent Concentrate	Surfactant
SS-149A	4,280 mL	112 mL	112 mL	SS-135/149A	None
SS-135/149B	4,500 mL	None	None	SS-135/149B	SS-135S
SS-149C	3,820 mL	340 mL	340 mL	SS-135/149C	None
SS-149P pre-dip	None	None	500 mL	SS-149P	None
SS-135A	4500	None	None	SS-135/149A	SS-135S
SS-135C	4500	None	None	SS-135/149C	SS-135S

3 Mix

Replace the dispensing spigot or cap and mix the reagent thoroughly by inverting the container several times.

4 Apply Labels

Select the appropriate label (SS-135 or SS-149) and transfer lot and expiration data from the concentrate bottle to the diluted reagent labels. Initial and date reagent labels. Apply the appropriate label(s).

Note: Before adding reagent to the 500 mL instrument bottles, check each bottle for debris or precipitated reagent. If necessary, clean the instrument bottle before refilling. To prevent microbial growth, disinfect bulk reagent containers monthly. Fill container with a one-tenth dilution of household bleach. Let stand for 10 minutes, then rinse throughly with deionized water.

The reagent is ready for use. See *INSTRUCTIONS*, *Basofix*[™] Hematology system (Wescor publication number IS9) for proper use of diluted Basofix concentrates.