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INSTRUCTIONS

Hematology Reagent Concentrate System SS-171/172

Intended Use

The SS-171/172 concentrate system is a series of concentrated hematology reagents for staining specimens with the Model 7150 Aerospray® Hematology Slide Stainer.

Description

Wescor reagents provide optimum performance with the Aerospray slide stainer. The reagent concentrate system delivers the same quality and performance of our standard prepared reagents. Reagent concentrates offer less shipping expense and can be used immediately after mixing.

Concentrates

Diluted concentrates (SS-171/172 series) are interchangeable with prepared reagents (SS-071 and SS-072 series). Anhydrous methanol (SS- MeOH or equivalent) must be supplied on the reagent D line for the automatic fixation and clean cycle.

For convenient mixing and storage of SS-171A and SS-172A, Wescor recommends a 5.0 Liter reagent bottle assembly (AC-072) that connects directly to the slide stainer to obviate the necessity of refilling the 500 mL bottles. The following SS-171/SS-172 concentrate system items are available for individual purchase:

Catalog Number	Description		
AC-038	5.0 Liter Space- Saver Container with lid		
AC-039	Dispensing Spigot for Space-Saver Container		
AC-043	500 mL Reagent Bottle with lid (empty)		
AC-072	5.0 Liter Reagent Bottle Assembly with pickup tube		
SS-171A	Buffer pH 6.8 30 mL dilutes to 5,030 mL		
SS-172A	Buffer pH 7.2 30 mL dilutes to 5,030 mL		
SS-171A500	Buffer pH 6.8 500 mL bottle, makes 83 Liters (30 mL makes 5,030 mL)		
SS-172A500	Buffer pH 7.2 500 mL bottle, makes 83 Liters (30 mL makes 5,030 mL)		
SS-171B2	Thiazin Stain 200 mL dilutes to 500 mL		
SS-171C2	Eosin Stain 220 mL dilutes to 500 mL		
SS-148	Aerofix 135 mL dilutes to 4,635 mL		

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. Observe flammability precautions when handling methanol. Refer to Material Safety Data Sheets (MSDS) for more information.

1. Prepare Container

For buffer concentrates, Wescor recommends the space-saver container (AC-038) mentioned on page 1. If any debris or indication of microbial growth is noticed, clean the container before proceeding (see note at end of instructions). No container preparation for SS-171B2 and SS-171C2 except opening the bottles is necessary.

Note: To prevent microbial growth in the buffers (reagent A), disinfect bulk reagent containers as needed. The formalin contained in the reagents should prevent most microbial growth problems. If any growth is suspected, fill the container with a one-tenth dilution of household bleach. Let stand for 20 minutes and then rinse thoroughly with deionized water.

2. Add Solvents and Concentrates

Add solvents and concentrates to their containers in the order (left to right) and quantities listed below:

Caution! To prevent damage to the stainer, **never** use organic solvents other than those supplied or recommended by Wescor.

Reagent Desired	Filtered, Deionized Water (0.2 micron filter, minimum 200,000 ohms resistivity)	Anhydrous, Reagent- Grade Methanol	Reagent Concentrate
SS-171/172A Buffer	5,000 mL	0	30
SS-171B2 Thiazin	0	300 mL	SS-171B (200 mL in a 500 mL bottle)
SS-171C2 Eosin	0	280 mL	SS-171C (220 mL)
SS-148	0	4,500	SS-148 (135 mL)

3. Mix

Replace the cap for buffer solutions and mix the reagent thoroughly by inverting the container several times. The addition of the methanol to 171B2 and 171C2 will be adequate mixing. Inverting these bottles may cause leakage once the seal is broken.

4. Apply Labels

Select the appropriate label and transfer lot and expiration data from the concentrate bottle to the diluted reagent labels. Initial and date reagent labels if required. Apply the appropriate label(s).

Note: If necessary, clean reused bottles before refilling. To prevent microbial growth, disinfect bulk reagent containers when necessary (fill container with a one-tenth dilution of household bleach. Let stand for 20 minutes and then rinse thoroughly with deionized water). In Most cases the formalin in the buffer will adequately disinfect the reagent and prevent contamination.