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Aerospray® Cytology Slide Stainer

## MIXING INSTRUCTIONS

### SS-151 Papanicolaou Reagent Concentrate System

#### Intended Use

The SS-151 system is a series of concentrated Papanicolaou reagents for staining cytological specimens with the Wescor Aerospray Cytology Slide Stainer.

#### 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 requirements. You can use diluted reagent concentrates immediately after mixing.

For convenient mixing and storage, we recommend a five liter space-saver container and dispensing spigot for each reagent. These reusable items are available from Wescor:

Catalog No.	Description
AC-038	Five Liter Space-Saver Container with Lid
AC-039	Dispensing Spigot for Space-Saver Container
AC-043	Empty 500 mL Reagent Bottle with Lid

#### Papanicolaou Reagent Concentrates

Catalog No.	Description
SS-151A	<b>EA-50 Concentrate (Part A)</b> , 205 mL will make 4.5 liters intermediate solution. <b>EA-50 Concentrate (Part B)</b> , when mixed with diluted SS-151A Part A and 13 mL acetic acid will make 4.5 liters Reagent A, EA-50 Stain.
SS-151B	<b>Orange G Concentrate</b> , 205 mL will make 4.5 liters Reagent B, Orange G Stain.
SS-151C	<b>Bluing Agent Concentrate</b> , 205 mL will make 4.5 liters Reagent C, Bluing Agent.
SS-151D	<b>Hematoxylin I Concentrate</b> , 500 mL will make 5.0 liters Reagent D, Hematoxylin I.
SS-151D2	<b>Hematoxylin II Concentrate</b> , 1000 mL will make 5.0 liters Reagent D, Hematoxylin II.
N/A	<b>Alcohol Wash</b> (equivalent to SS-051E) can be prepared from customer's supplies (see table).

Each reagent concentrate includes:

Reagent Concentrate  
Reagent Label for Five Liter Space-Saver Container  
Reagent Label for 500 mL Reagent Bottle  
Mixing Instructions (One per Order)

## 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 the Material Safety Data Sheet (MSDS) for more information.

### ① PREPARE CONTAINER

Use a clean, empty container with five liter capacity. If you notice any debris or precipitated reagent from previous use, clean the container before proceeding.

### ② ADD SOLVENTS and CONCENTRATES

Add solvents and concentrates to the container in the order and quantity listed below (reserve a small amount of appropriate solvent to rinse each concentrate bottle, ensuring that all concentrated reagent is diluted):

REAGENT	WATER <sup>1</sup>	ETHANOL <sup>2</sup>	CONCENTRATE	OTHER
A	700 mL	3,600 mL	SS-151A (Part A) 205 mL	SS-151A (Part B) - 14 mL Acetic Acid - 13 mL
B	335 mL	3,960 mL	SS-151B 205 mL	NONE
C	3,850 mL	450 mL	SS-151C 205 mL	NONE
D (Hematoxylin I)	3,375 mL	NONE	SS-151D <sup>3</sup> 500 mL	Ethylene Glycol 1,125 mL
D (Hematoxylin II)	3,000 mL	NONE	SS-151D <sup>3</sup> 1,000 mL	Ethylene Glycol 1,000 mL
E	NONE	2,500 mL	NONE	Isopropanol <sup>4</sup> 2,500 mL

<sup>1</sup> Filtered, Deionized Water (0.2 micron filter, minimum 200,000 ohms resistivity)

<sup>2</sup> Anhydrous, Reagent Grade SD3A Ethanol

<sup>3</sup> This solution will solidify at temperatures below 4° C (40° F). Should this occur in shipping or storage, place the concentrate bottle in a beaker of very hot water (70 - 100° C) for ten minutes then shake until completely dissolved.

<sup>4</sup> Anhydrous, Reagent Grade Isopropanol (analyzed water content less than 0.05%)

### ③ MIX

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

### ④ APPLY LABELS

Transfer the lot and expiration data from the concentrate bottle to both reagent labels. Initial and date the reagent labels. Apply the appropriate label to both the mixing container and the instrument reagent bottle.

The reagent is ready for use.

**Note:** Before adding diluted reagent to the instrument bottles, check each bottle for debris or precipitated reagent. If necessary, clean the instrument bottle before refilling.

## Alternative Instructions to Prepare 500 mL of Reagent

You may find it more convenient to prepare only 500 mL of reagent at a time, eliminating the need to store a large volume of prepared reagent.

**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 the Material Safety Data Sheet (MSDS) for more information.*

### ① PREPARE CONTAINER

Use a clean, empty reagent bottle (500 mL capacity). If you notice any debris or precipitated reagent from previous use, clean the bottle before proceeding.

### ② ADD SOLVENTS and CONCENTRATES

Add solvents and concentrates to the container in the order and quantity listed below (reserve a small amount of appropriate solvent to rinse each concentrate bottle, ensuring that all concentrated reagent is diluted):

REAGENT	WATER <sup>1</sup>	ETHANOL <sup>2</sup>	CONCENTRATE	OTHER
A	78 mL	400 mL	SS-151A (Part A) 23 mL	SS-151A (Part B) - 1.6 mL Acetic Acid - 1.4 mL
B	37 mL	440 mL	SS-151B 23 mL	NONE
C	428 mL	50 mL	SS-151C 23 mL	NONE
D (Hematoxylin I)	338 mL	NONE	SS-151D <sup>3</sup> 50 mL	Ethylene Glycol 113 mL
D (Hematoxylin II)	300 mL	NONE	SS-151D <sup>3</sup> 100 mL	Ethylene Glycol 100 mL
E	NONE	250 mL	NONE	Isopropanol <sup>4</sup> 250 mL

<sup>1</sup> Filtered, Deionized Water (0.2 micron filter, minimum 200,000 ohms resistivity)

<sup>2</sup> Anhydrous, Reagent Grade SD3A Ethanol

<sup>3</sup> This solution will solidify at temperatures below 4° C (40° F). Should this occur in shipping or storage, place the concentrate bottle in a beaker of very hot water (70 - 100° C) for ten minutes then shake until completely dissolved.

<sup>4</sup> Anhydrous, Reagent Grade Isopropanol (analyzed water content less than 0.05%)

### ③ MIX

Replace the lid and mix the reagent thoroughly by inverting the bottle several times.

### ④ APPLY LABEL

Transfer the lot and expiration data from the concentrate bottle to the reagent label. Initial and date the reagent label.

The reagent is ready for use.