

Rapid Differential Stain Kit

RAPID DIFFERENTIAL STAINING SET

Three-step procedure for differentiation of morphological cell types in peripheral blood smears. Also stains microorganisms and spermatozoa.

SUMMARY

Rapid Differential is a stain set for manual staining of blood smears. The staining characteristics are also similar to the traditional Wright's and Wright's Giemsa stains.

Rapid Differential offers the flexibility of a three- to five-dip staining sequence in both the stain and counter-stain solutions.

STORAGE CONDITIONS

Store at controlled room temperature (15-30°C). Keep bottles tightly closed when not in use. Do not use after expiration date specified on box label.

INDICATION OF DETERIORATION

Mold growth or excessive precipitation in reagents are indications of contamination and/or degradation.

SPECIMEN COLLECTION AND PREPARATION

Smears prepared from fresh uncoagulated venous or arterial blood should be air-dried. If the smears are not prepared immediately, 2 mg of EDTA/mL of blood sample should be added to prevent coagulation.

PROCEDURE

Materials Provided:

Rapid Differential Fixative Solution #1, 604041

Rapid Differential Solution #2 Red, 605041

Rapid Differential Solution #3 Blue, 606041

Materials Not Provided:

Coplin Jars/Staining Dishes

Microscope Slides/Immersion Oil

TECHNIQUE

1. Transfer each Solution into Coplin jars or staining dishes and keep covered when not in use.
2. Prepare slides as instructed under SPECIMEN COLLECTION AND PREPARATION.
3. Dip each slide to be processed for (5) 1-second dips into the Fixative Solution #1. Allow excess reagent to drain or blot slide.
4. Repeat this procedure substituting Solution #2 Red and Solution #3 Blue respectively.
5. Rinse slides with deionized water and allow to dry. Examine using immersion oil.

NOTE: Staining intensity may be varied by increasing or decreasing the number of dips in Solution #2 Red or Solution #3 Blue. For a more eosinophilic result (red intensity), increase the number of dips into Solution #2 Red; for a more basophilic result (blue intensity), increase the number of dips into Solution #3 Blue. Ideally, (5) 1-second dips into each Solution will produce the desired results. Any variation of the procedure other than described above may adversely affect the results.

Stained Specimen Results

Specimen	Nucleus	Granules	Cytoplasm	Specimen	Nucleus	Granules	Cytoplasm
Erythrocytes	NA	NA	pink	Leucocytes Nongranular			
				Monocytes	violet	NA	light blue
				Lymphocytes	violet	NA	medium blue
Leukocytes Granular				Platelets	NA	purple	lilac
Polymorphonuclear				Microorganisms	blue/violet	NA	NA
Neutrophils	purple	red-lilac	light pink	Spermatozoa	dark blue		
Eosinophils	dark blue	red/orange	medium blue				
Basophils	dark blue	dark purple	light blue				

PRECAUTIONS: Rapid Differential Fixative Solution #1 contains methyl alcohol and is a Flammable Liquid.

DANGER – POISON . May be fatal or cause blindness if swallowed . Vapor is harmful and will cause eye irritation.

Do not breathe vapor. Avoid contact with eyes, skin, or clothing. Keep container closed. Use with adequate ventilation. Keep from heat, sparks and open flame. Wash thoroughly after handling.

CANNOT BE MADE NON-POISONOUS.

FIRST AID: If swallowed, call a physician immediately. In case of contact with eyes, immediately flush with water for 15 minutes and notify a physician. Wash exposed areas thoroughly after handling.

WARNING: Solution #2 Red contains trace amounts of sodium azide that may react with copper and lead plumbing to form highly explosive metalazides. When disposing, flush with a large volume of water to prevent azide build up.

All products are warranted to perform as described in their labeling and corresponding literature. All other warranties expressed or implied, including the warranty of merchantability and fitness for use, are excluded. In no event shall Astral or VetOne be liable for any indirect or consequential damages.

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