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Quick III™ Insert Sheet

Item Number(s) & components of: 5303, 5316, 5328, 5329, 5330

Quick III STAINING SET

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

SUMMARY

Quick III 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.

Quick III 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, 2mgs of EDTA/mL of blood sample should be added to prevent coagulation

PROCEDURE

Materials Provided:

Quick III Fixative Solution
Quick III Solution I
Quick III Solution II

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**.
3. Dip each slide to be processed for five, one second dips into the Fixative Solution. Allow excess reagent to drain or blot slide.
4. Repeat this procedure substituting Solution I and Solution II 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 Quick III Solution I or Solution II. For a more eosinophilic result (red intensity), increase the number of dips into Solution I; for a more basophilic result (blue intensity), increase the number of dips into Solution II. Ideally, five one second dips into each Solution will produce the desired results. Any variation of the procedure other than described above may adversely effect the results.

Stained Specimen Results

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

Precautions:

QuickIII Fixative Solution 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 Nonpoisonous

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 I contains trace amounts of sodium azide which may react with copper and lead plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up.

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