

Kinyoun Carbol Fuchsin

Learn how to make Kinyoun carbol fuchsin and use it to stain acid-fast organisms.

Materials

Distilled Water (item #858621)
Methylene Blue (item #875734)
Carbol Fuchsin (item #171145)
Ethanol (item #861300)
Basic Fuchsin (item #864170)
Phenol (item #879710)
Hydrochloric Acid (item #867868)
Stir Bar
Amber Bottle
Magnetic Stir Plate (item #701023)
Erlenmeyer Flask, 500-mL (item #731030)
Label

Don't want to make it yourself?
Find Kinyoun carbol fuchsin at Carolina.com

Item Number
852665

Procedure

1. Prepare carbol fuchsin by mixing 20 g of basic fuchsin with 100 mL of absolute alcohol (ethanol).
2. Then mix 40 g of phenol with 500 mL of distilled water.
3. Finally, mix the 2 solutions together.

Staining procedure:

1. Flood slides with Kinyoun carbol fuchsin for 5 minutes.
2. Rinse gently with water until the water flows off clear.
3. Flood slides with acid-alcohol (3% hydrochloric acid in ethanol) for 3 to 5 seconds.
4. Rinse gently with water until the water flows off clear.
5. Flood slides with methylene blue for 3 minutes.
6. Rinse gently with water until the water flows off clear.
7. Allow slides to air dry before viewing.

Label Information

Carbol Fuchsin Kinyoun

Caution: Corrosive and toxic to body tissue; highly flammable

Date Prepared: _____

Initials of Preparer: _____

Health Risk: 2

Flammability: 3

Reactivity: 0

Applications

Kinyoun stain is a method of staining acid-fast microorganisms, particularly *Mycobacterium* and *Nocardia*.

Reference

Bartelt, Margaret A. 1999. *Diagnostic bacteriology: A study guide*. Philadelphia: F. A. Davis Company, 1999, p. 500.

Brandwein, P. F., and E. Morholt. 1986. *A sourcebook for the biological sciences*, 3rd ed. Orlando, FL: Harcourt Brace Jovanovich, 1986, p. 170.