

INTENDED USE

Eosin-Y may be used as a pink cytoplasmic stain in cytology and histology.

PRODUCT SUMMARY

Eosin-Y is an acid dye that attaches to positively charged amino groups of tissue components. Different hues between collagen, muscle and erythrocytes result from the varying degrees of dye molecule aggregation to charged sites. The high solubility of eosin Y in the methanol solvent makes ANATECH Eosin-Y a fast-acting alcoholic solution. Acetic acid provides the optimal pH for tissue and dye ionization.

INGREDIENTS

Acetic acid, eosin Y, methanol

WARNING

Danger. Poison. Vapor harmful. May be fatal or cause blindness if swallowed. If swallowed, call a physician immediately. Cannot be made nonpoisonous. Flammable. Keep from heat and open flame. Use with adequate ventilation. Avoid contact with skin and eyes.

For In Vitro Diagnostic Use.

STORAGE

Store in a flammable cabinet. Keep at room temperature, away from direct sunlight. Keep containers tightly closed when not in use.

DIRECTIONS FOR USE

Stain intensity: Control stain intensity by varying staining times or the alcohol rinse concentrations following the stain.

Eosin is more soluble in water than alcohol. Therefore, a 95% alcohol rinse following the stain will remove more dye from the tissue section than anhydrous (100%) alcohol.

To achieve lighter shades, replace the first rinse with 70% or increase times of the subsequent rinses. If changes in the rinses provide too intense of colors, ANATECH Eosin-Y can be diluted in a 1:1 ratio with 70% ethanol.

Eosin crystals: Increased water content of the stain, due to carry-over from the previous solution, may cause orange crystals to form. These crystals are the free-acid form of eosin dye that requires a high alcohol content to remain in solution.

A 70% alcohol pre-rinse prior to the stain will prevent formation of these acid eosin crystals. Use ethanol or reagent alcohol for the pre-rinse; avoid isopropanol as it is not a solvent for eosin and may cause precipitation in the stain solution.

Proper dehydration: To prevent eosin bleeding, assure complete dehydration by using three changes of anhydrous alcohol for one minute each.

When the last anhydrous alcohol rinse turns slightly pink, discard the first 100% alcohol, rotate the remaining two rinses and provide a clean third anhydrous alcohol. All alcohol fluid levels after the stain should be higher than the level of ANATECH Eosin-Y.

ANATECH Eosin-Y will provide the exquisite three-tone effect, distinguishing collagen, muscle, and erythrocytes. The following staining schedule is designed to produce satisfactory results for most users. However, optimal staining can be achieved only with properly fixed and processed specimens. Inadequate fixation, and excessive exposure to dehydrants, clearants, or heat can alter the quality of staining. Please call 1.800.ANATECH (1.800.262.8324) for assistance in obtaining optimal results.

RECOMMENDED STAINING SCHEDULE

1. Clearant x 3 3 minutes each
2. 100% alcohol x 2 1 minute each
3. 95% alcohol 1 minute
4. 70% alcohol 1 minute
5. Distilled or deionized water 1 minute
6. ANATECH Harris Hematoxylin 2.0 to 4.0 minutes
7. Water 1 minute
8. ANATECH Decolorizer 1 minute
9. Water 1 minute
10. ANATECH Bluing Reagent 1 minute
11. Water 1 minute
12. 70% alcohol 1 minute
13. ANATECH Eosin-Y 0.5 to 3.0 minutes
14. 95% alcohol 1 minute
15. 100% alcohol x 3 1 minute each
16. Clearant x 3 1 minute each

DISPOSAL

Dispose of all chemicals in accordance with Federal, state and local codes. In many localities, stain waste can be discarded into the sanitary sewer system after decolorization and neutralization.

To prepare ANATECH Eosin-Y for drain disposal:

1. Decolorize the solution with bleach under a fume hood until the solution is pale yellow.
2. Neutralize with sufficient sodium bicarbonate to bring to pH 7.0–8.0.

The resultant solution is ready for disposal into the sanitary sewer system provided approval is granted by local authorities.

SAFETY DATA SHEETS (SDS)

SDS are available online at www.cancerdiagnostics.com.

ORDERING INFORMATION FOR EOSIN-Y

<u>Cat#</u>	<u>Packaging</u>
832	1 gallon