

INTENDED USE

EZ Mucicarmine is used to stain acidic mucopolysaccharides.

PRODUCT SUMMARY

Carminic acid is an extract of cochineal insects. When carminic acid is combined with a positively charged mordant (aluminum) carmine dye is formed. The cationic carmine dye binds to the anionic mucin. Neither DNA nor RNA will stain with EZ Mucicarmine presumably because of the large size of the carmine molecule (steric hindrance).

INGREDIENTS

Carmine dye (C.I. 75470), aluminum chloride, thymol (as a preservative)

WARNING

Irritant to eyes.

For In Vitro Diagnostic Use.

STORAGE

Store in refrigerator (35°–38°F). Keep containers tightly closed when not in use.

DIRECTIONS FOR USE

1. Let warm to room temperature. Filter before use.
2. EZ Mucicarmine stains acidic mucins pink to red, depending upon their degree of acidity. Sulfated mucosubstances stain more intensely than carboxylated mucins. Neutral mucins do not stain.
3. A compatible counterstain for EZ Mucicarmine is EZ Green (ANATECH Catalog #873). Collagen and muscle will stain green. RNA rich cells retain the hematoxylin, thus cytoplasm may appear bluish-green. Exposure to acid alcohol usually reduces this blue cast depending on RNA content.

RECOMMENDED STAINING SCHEDULE

1. Clearant x 3 3 minutes each
2. 100% alcohol x 2 1 minute each
3. 95% alcohol 1 minute
4. 50% alcohol 1 minute
5. Distilled or deionized water x 2 30 seconds each
6. Harris Hematoxylin variable
7. Distilled or deionized water rinse
8. Acid alcohol variable
9. Tap water rinse
10. Bluing reagent variable
11. Tap water rinse
12. EZ Mucicarmine 10 minutes
13. Distilled or deionized water rinse
14. EZ Green or appropriate counterstain
15. Distilled or deionized water 1 minute
16. 70% alcohol 1 minute
17. 95% alcohol 1 minute
18. 100% alcohol x 3 1 minute each
19. Clearant x 3 1 minute each

Results: Acidic mucin–pink to red; Nuclei–blue; Collagen, cytoplasm and muscle–dependent on counterstain

DISPOSAL

1. Use a licensed waste hauler.
2. Discard into the sanitary sewer system with the approval of local wastewater officials.

MSDS

MSDS are available online at www.anatechltusa.com.

ORDERING INFORMATION FOR EZ MUCICARMINE

<u>Cat#</u>	<u>Packaging</u>
871	EZ Mucicarmine, 1 quart
872	EZ Carmine, 25 g jar
878	EZ Carmine, 1 kg
884	Mucicarmine Stain Kit