

INTENDED USE

Amyloid Red Stain is used to stain amyloid deposits. Harris Hematoxylin is used as a blue nuclear stain.

PRODUCT SUMMARY

Amyloid Red dye contains two unhindered hydroxyl or amino groups spaced 12-16 Å apart and is therefore capable of hydrogen bonding to amyloid deposits. The phosphate buffer maintains a pH to allow specificity in staining and the sodium chloride enhances intensity. Amyloid Red is fluorescent and birefringent when complexed with amyloid. Amyloid Red also selectively stains elastin.

Hematoxylin dye is oxidized to hematein, which is reacted with a metal ion (mordant) to form the active staining component in Harris Hematoxylin. Since aluminum ammonium sulfate is used as the mordant, the solution is often referred to as hemalum. The hemalum attaches specifically to tissue phosphoric acids (DNA and RNA).

INGREDIENTS

Amyloid Red Stain: Direct red 72 (C.I. 29200), phosphate buffer, reagent alcohol, sodium chloride

Harris Hematoxylin: acetic acid, aluminum ammonium sulfate, SDA-3A alcohol, hematoxylin, sodium iodate

WARNING

Amyloid Red Stain: Irritant to eyes and skin. Toxicity of dye powder is untested.

Harris Hematoxylin: Irritant. Avoid contact with skin and eyes.

For In Vitro Diagnostic Use.

STORAGE

Store kit at room temperature, away from direct sunlight. Keep all containers tightly closed when not in use.

DIRECTIONS FOR USE

1. Warm Amyloid Red Stain in a waterbath to 50–55°C.
2. Staining intensity of the amyloid is dependent upon many factors, such as age of the amyloid deposits in vivo, thickness of paraffin section and age of cut sections.
 - a. For best results cut sections at 8µ.
 - b. Reports indicating that the age of paraffin sections affects stain intensity suggest that the age of pre-cut control sections should be monitored.
3. Use Harris Hematoxylin at room temperature.

RECOMMENDED STAINING SCHEDULE

1. Clearant x 33 minutes each
2. 100% alcohol x 21 minute each
3. 95% alcohol1 minute
4. 50% alcohol1 minute
5. Distilled or deionized water x 230 seconds each
6. Amyloid Red Stain at 50-55°C20 minutes
7. Distilled or deionized waterrinse
8. Anatech Harris Hematoxylin15 seconds
9. Tap waterrinse to blue
10. Distilled or deionized water1 minute
11. 70% alcohol1 minute
12. 95% alcohol1 minute
13. 100% alcohol x 31 minute each
14. Clearant x 31 minute each

Results: Amyloid–pink; Nuclei–blue

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 AMYLOID

<u>Cat#</u>	<u>Packaging</u>
881	Amyloid Stain Kit
868	Amyloid Red Stain, 1 quart
863	Amyloid Red, 50 g jar
864	Amyloid Red, bulk, 1 kg
842	Harris Hematoxylin, 1 gallon