

**INTENDED USE**

Amyloid Red is used to stain amyloid deposits.

**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.

**INGREDIENTS**

Direct red 72 (C.I. 29200)

**WARNING**

Irritant to eyes and skin. Toxicity of dye powder is untested.

For In Vitro Diagnostic Use.

**STORAGE**

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

**DIRECTIONS FOR USE**

**1. Solution preparations**

- a. 0.1 N HCl  
Add acid to water:  
Hydrochloric acid, concentrated ..... 8.0 ml  
Warm deionized or distilled water ..... 1,000 ml
- b. 0.1 M dibasic sodium phosphate, anhydrous (Na<sub>2</sub>HPO<sub>4</sub>)  
Dissolve:  
Sodium phosphate ..... 14.2 g  
Warm deionized or distilled water ..... 1,000 ml

**2. Stain preparation (mix thoroughly in given order)**

- a. Sodium chloride..... 0.3 g
- b. Warm deionized or distilled water ... 49.0 ml
- c. 0.1 M dibasic sodium phosphate ..... 20.0 ml
- d. Amyloid Red ..... 0.5 g
- e. Reagent alcohol or ethanol ..... 20.0 ml
- f. 0.1 N HCl..... 11.0 ml
- g. Check pH and adjust to 6.8-7.2 if necessary.
- h. Filter before use.

**3. Staining**

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

**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. Amyloid Red Stain at 50-55°C ..... 20 minutes
- 7. Distilled or deionized water ..... rinse
- 8. ANATECH Harris Hematoxylin ..... 15 seconds
- 9. Tap water ..... rinse to blue
- 10. Distilled or deionized water ..... 1 minute
- 11. 70% alcohol ..... 1 minute
- 12. 95% alcohol ..... 1 minute
- 13. 100% alcohol x 3 ..... 1 minute each
- 14. Clearant x 3 ..... 1 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.anatechltdusa.com](http://www.anatechltdusa.com).

**ORDERING INFORMATION FOR AMYLOID RED**

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