

AMYLOID CONGO RED STAIN KIT (SS004-25)

INTENDED USE

BioMarq Amyloid Congo Red Stain Kit is used for *in vitro* diagnostic use. Amyloid staining is used to stain the extracellular amyloid deposits in the tissues. It is usually used to identify Alzheimer's disease in the diagnostic Pathology. The results using this product should be interpreted by a qualified pathologist in conjunction with the patient's relevant clinical history, other diagnostic tests and proper controls.

PRODUCT DESCRIPTION

Amyloid is homogeneous and eosinophilic. Amyloid deposits are extracellular and may become sufficiently large enough to cause damage to surrounding tissues. When stained with the Congo Red Stain the amyloid, with the aid of polarizing lenses, will birefringe an apple green color under the microscope.

KIT CONTENTS

Sodium Hydroxide Solution (SS011-5D)	1x 5ml
Alcoholic Congo Red (SS012-10D)	3X10ml
Alcoholic Sodium Chloride (SS013-30D)	3X10ml
Mayer's Hematoxylin (SS007-30D)	1X30ml

MATERIALS REQUIRED BUT NOT PROVIDED

Microscope slides
Xylene/ Xylene substitute
Reagent alcohol/Ethanol
Deionized or distilled water
SS Wash Solution (Catalog No WB005-DC)
Positive Control Slides
Mounting Solutions

STORAGE AND STABILITY

Store at 2-8°C. Do not freeze. Not to be used beyond the expiration date prescribed on label.

SPECIMEN PREPARATION

Fixation: Carnoy's fixative, 10% NBF or Bouin's

Paraffin Sections: Cut sections at 8-10 microns.

PREPARATION OF WORKING SOLUTION

- 1. Alkaline Sodium Chloride Solution:** add 2 drops of Sodium Hydroxide Solution to one vial of Alcoholic Sodium Chloride Solution, just before use. Working solutions are stable for 15 days stored at 2-8°C. Bring to room temperature before use.
- 2. Alkaline Congo Red Solution:** add 2 drops of Sodium Hydroxide Solution to one vial Congo Red Solution just before use. Working solutions are stable for 15 days stored at 2-8°C. Bring to room temperature before use.

RECOMMENDED PROTOCOL

Deparaffinize with xylene/ xylene substitute and rehydrate through graded alcohols to deionized water. Wash the slide with SS Wash Solution for 3 times.

Stain the slides with 300ul of Mayer's Haematoxylin for 20 min. Wash the slides with SS Wash Solution for 3 times.

Stain the slides with 300ul of Alkaline Sodium chloride solution for 20min. Wash the slides with SS Wash Solution for 3 times.

Blot the slides and stain with 300ul of Alk. congored solution for 15min. Wash the slides with SS Wash Solution for 3 times.

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Dehydrate, clear in xylene or its substitute & mount the slides with BioMarq XY-Mount (Catalog No MS002) or using BioMarq T-Mount (Catalog No MS003).

For detailed safety information related to BioMarq Products, please refer to appropriate safety data sheets (SDS) available online at www.biomarq.net

TECHNICAL NOTE

Bring all reagents to RT before use

Gently invert all reagents prior to use

Thickness of section may affect the intensity of staining

Users can also procure the Positive Control Slides available from BioMarq for their Quality Control purpose.

Follow the protocol recommendations provided in the data sheet. If atypical results occur, contact BioMarq Technical Support at 040-29702960.

RECOMMENDED CONTROL

HEART, LIVER & KIDNEY CONTAINING AMYLOID

STAINING INTERPRETATION

Nuclei – blue

Amyloid - red to deep pink.

For image please visit our web site www.biomarq.net

PRECAUTIONS

Specimens should be handled carefully before and after the assay to avoid transmission of infection and disposed of with proper precautions

When working with Special Stain chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles

REFERENCES

1. Maria M. Picken, MD et al, Amyloidosis—Where Are We Now and Where Are We Heading? Archives of Pathology & Laboratory Medicine: April 2010, V(134), p- 545-551.
2. Charles J. Churukian et al, Improved Puchtler's Congo Red Method for Demonstrating Amyloid, Journal of Histotechnology, 2000,V(23).