

1.15927.0025

Microscopy

Ponceau S (C.I. 27195)

for microscopy Certistain®



In Vitro Diagnostic Medical Device



for staining of connective tissue in histological sections

This staining dye "Ponceau S (C.I. 27195) - for microscopy Certistain®" is used for human-medical cell diagnosis and serves the histological investigation of sample material of human origin. It is a dry staining dye that is used to prepare a staining solution, that when used together with other in vitro diagnostic products from our portfolio makes target structures (by fixing, embedding, staining with the above Ponceau S solution, counterstaining, mounting) in histological specimen materials evaluable for diagnostic purposes.

Principle

Ponceau S is an anionic, very hydrophilic diazo dye of medium size. Ponceau S is resistant to fading in staining procedures.

Ponceau S is used for connective tissue staining methods. It is used for visualization of connective tissue or for staining of fibrin and platelets.

Sample material

Sections of paraffin embedded tissue (3 - 5 µm thick paraffin sections) are used as starting material.

Reagents

Cat. No. 1.15927.0025

Ponceau S (C.I. 27195) for microscopy Certistain® 25 g

Color Index No.: 27195

Color Index Name: Acid red 112

Also required:

Cat. No. 100063 Acetic acid (glacial) 100% anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur 1 l, 2.5 l

Cat. No. 100327 Hydrochloric acid in ethanol for microscopy 1 l, 5 l

Cat. No. 100974 Ethanol denatured with about 1 % methyl ethyl ketone for analysis EMSURE® 1 l, 2.5 l

Cat. No. 115973 Weigert's iron hematoxylin kit for nuclear staining in histology 2x 500 ml

Cat. No. P6744 Picric acid solution - 1.3 % in H₂O (saturated) Sigma

Sample preparation

The sampling must be performed by qualified personnel.

All samples must be treated using state-of-the-art technology.

All samples must be clearly labeled.

Suitable instruments must be used for taking samples and their preparation. Follow the manufacturer's instructions for application / use.

Deparaffinize and rehydrate sections in the conventional manner.

Reagent preparation

Weigert's iron hematoxylin staining solution

Mix reagent 1 and 2 (Weigert's solution A and Weigert's solution B) in the ratio 1 + 1.

The prepared staining solution remains stable for approx. one working week.

The solution must be exchanged as soon as the cell nuclei appear brown.

Acetic acid 2 %

For preparation of approx. 100 ml solution mix:

Distilled water	98 ml
Acetic acid 100 %	2 ml
mix	

Ponceau S solution

For preparation of approx. 100 ml of solution mix:

Ponceau S (C.I. 27195) Certistain®	1 g
Distilled water	100 ml
dissolve and filter	

Ponceau S working solution

For preparation of approx. 100 ml of solution mix:

Ponceau S solution	10 ml
Picric acid solution - 1.3 % in H ₂ O (saturated)	90 ml
Acetic acid 2 %	1.5 ml
mix and filter	

The freshly prepared staining solutions should be filtered before use.

Procedure

Connective tissue staining

Staining in the staining cell

Deparaffinize histological slides in the conventional manner and rehydrate in a descending alcohol series.

The slides must be immersed and moved briefly in the solutions, simple immersion alone yields inadequate staining results.

The slides should be allowed to drip off well after the individual staining steps, as a measure to avoid any unnecessary cross-contamination of solutions.

The stated times should be adhered to to guarantee an optimal staining result.

Slide with paraffin section	
Distilled water	1 min
Weigert's iron hematoxylin staining solution	5 min
Distilled water	1 min
Hydrochloric acid in ethanol	differentiate
Running tap water	20 min
Ponceau S working solution	3 min
Ethanol 96 %	1 min
Ethanol 96 %	1 min
Ethanol 100 %	1 min
Ethanol 100 %	1 min
Xylene	1 min
Xylene	1 min
Mount the xylene-wet slides with e.g. Entellan® new and cover glass.	

After dehydration (ascending alcohol series) and clarification with xylene, histological slides can be covered with non-aqueous mounting agents (e.g. Entellan® new) and a cover glass and can then be stored.

The use of immersion oil is recommended for the analysis of stained slides with a microscopic magnification >40x.

Result

Cell nuclei	black-brown
Erythrocytes	pale yellow
Connective tissue	bright red
Muscle	intense yellow

Technical notes

The microscope used should meet the requirements of a medical diagnostic laboratory.

When using automatic staining systems, please follow the instructions for use supplied by the supplier of the system and software.

The freshly prepared staining solutions should be filtered before use.

Remove surplus immersion oil before filing.

Diagnostics

Diagnoses are to be made only by authorized and trained personnel.

Valid nomenclatures must be used.

Further tests must be selected and implemented according to recognized methods. Suitable controls should be conducted with each application in order to avoid an incorrect result.

Storage

Store Ponceau S (C.I. 27195) - for microscopy Certistain® at +5 °C to +30 °C.

Shelf-life

Ponceau S (C.I. 27195) - for microscopy Certistain® can be used until the stated expiry date.

After first opening of the bottle, the contents can be used up to the stated expiry date when stored at +5 °C to +30 °C.

The bottles must be kept tightly closed at all times.

If stored at +15 °C to +25 °C, the freshly prepared Weigert's iron hematoxylin staining solution can be used for minimum one working week.

The solution must be exchanged as soon as the cell nuclei appear brown.

However, the solutions should be discarded when contaminations (e.g. bacteria, fungi), that occur at times, are observed.

Additional instructions

For professional use only.

In order to avoid errors, the application must be carried out by qualified personnel only.

National guidelines for work safety and quality assurance must be followed.

Microscopes equipped according to the standard must be used.

If necessary use a standard centrifuge suitable for medical diagnostic laboratory.

Protection against infection

Effective measures must be taken to protect against infection in line with laboratory guidelines.

Instructions for disposal

The package must be disposed of in accordance with the current disposal guidelines.

Used solutions and solutions that are past their shelf-life must be disposed of as special waste in accordance with local guidelines. Information on disposal can be obtained under the Quick Link "Hints for Disposal of Microscopy Products" at www.microscopy-products.com. Within the EU the currently applicable REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 applies.

Auxiliary reagents

Cat. No.	100063	Acetic acid (glacial) 100% anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur	1 l, 2.5 l
Cat. No.	100327	Hydrochloric acid in ethanol for microscopy	1 l, 5 l
Cat. No.	104699	Immersion oil for microscopy	100-ml dropping bottle, 100ml, 500 ml
Cat. No.	107961	Entellan® new rapid mounting medium for microscopy	100 ml, 500 ml, 1 l
Cat. No.	108298	Xylene (isomeric mixture) for histology	4 l
Cat. No.	115973	Weigert's iron hematoxylin kit for nuclear staining in histology	2x 500 ml
Cat. No.	P6744	Picric acid solution - 1.3 % in H ₂ O (saturated)	Sigma

Hazard classification

Cat. No. 1.15927.0025

Please observe the hazard classification printed on the label and the information given in the safety data sheet.

The safety data sheet is available on the website and on request.

Main components of the product

Cat. No. 1.15927.0025

C.I. 27195

C₂₂H₁₂N₄Na₄O₁₃S₄

M = 760.57 g/mol

Other IVD products

Cat. No.	100199	Picrofuchsin solution acc. to van Gieson for microscopy	500 ml
Cat. No.	100485	Masson-Goldner staining kit for the visualization of connective tissue with trichromic staining	1 unit
Cat. No.	101646	PAS staining kit for detection of aldehyde and mucosubstances	2x 500 ml
Cat. No.	115974	Elastica van Gieson staining kit for connective tissue	4x 500 ml



Consult instructions for use



Manufacturer



Catalog number



Batch code



Caution, consult accompanying documents



Use by YYYY-MM-DD



Temperature limitation

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Merck KGaA, 64271 Darmstadt, Germany
Tel. +49(0)6151 72-2440
www.Mikroskopie-Produkte.com

EMD Millipore Corporation, 290 Concord Road, Billerica, MA 01821, USA, Tel. +1-978-715-4321

