



In Vitro Diagnostic Medical Device
For professional use only



Eosin yellowish Gurr[®] for microscopical staining

Cat. No	Pack Type	Pack Size
341972Q	Glass Bottle	25 g
341973R	Glass Bottle	100 g
341975T	Glass Bottle	1 kg

Composition

C.I. No. 45380

$C_{20}H_6Br_4Na_2O_5$ M = 691.86 g/mol

35194	Haematoxylin Harris mercury free solution	1 l
10107	Ethanol absolute 'AnalaR'	500 ml, 1 l, 2.5 l
20104	Acetic Acid 100% Normapur Analytical reag	1 l, 2.5 l, 5 l, 20 l
19068	Hydrochloric acid (1N) 'AnalaR'	1 l, 5 l
30024	Hydrochloric Acid 1 mol/l 1 N Aqueous	1 l, 2.5 l, 5 l, 10 l, 20 l

Intended Use(s)

Dye for counterstaining in haematoxylin-eosin staining (H&E) in histology and clinical cytology to differentiate suspected cells types e.g. cervical cancer

It is used for the initial evaluation to differentiate nuclei, cytoplasm and squamous cells under microscope. Cytoplasm, collagen and elastin are stained red.

Erythrocytes are stained yellow-orange

Evaluate the result by comparing it to what would be the age related normal values

Review of the samples helps in determining the need for ancillary studies.

An initial review of the patient's clinical background is necessary to use in conjunction with the result of the staining

Samples derived from the human body

References:

* Staining procedures (1981). CLARKE G.:

* Conn's Biological stains 10th edition, R.W. Horobin, J.A. Kiernan

Principle

Haematoxylin – Eosin (H&E) staining is the most used method in histology.

H&E is an overview stain.

In the first staining step the nuclei are stained by a hematoxylin solution. Nuclei are stained dark blue

The second step is counterstaining with a xanthene dye eosin Y

Cytoplasm, collagen and elastin are stained red.

Erythrocytes are stained yellow-orange

Reagent

Cat. No	Description	Pack Size
34197	Eosin Yellowish (C.I. 45380)	25 g, 100 g
35060	Mayer's hemalum solution	500 ml

Preparation

1. Eosin solution 0.1% aqueous

Dissolve 1.0 g eosin Y or eosin B in 1 l distilled water while stirring. Add 1.6 ml acetic acid (glacial) 100%, filter before use.

2. HCl solution 0.1% aqueous

Carefully mix 725 ml distilled water with 27.5 ml HCl 1N.

Sample material and preparation

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Paraffin sections to be de-paraffinized following the documented standard in the laboratory and rehydrated. Gynaecological and non-gynaecological specimen as sputum, urine, FNAB, body effusions, lavages

The collected cells are smeared on a microscope slide and immediately wet fixed with a thin film to maximize cell preservation

In order to avoid errors, the staining process must be carried out by an expert.

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

Microscopes equipped according to the standard must be used.

If necessary use a centrifuge suitable for medical diagnostic laboratory.

Samples derived from the human body

Fixation

Wet fixation immediately with Cytology spray fixative or wet fixation immediately in 96% ethanol for minimum 30 min.

All samples must be clearly labelled.

Suitable instruments must be used for taking samples and their preparation; manufacturer instructions for application / use must be followed.



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Procedure

Paraffin sections of samples derived from the human body to be de-paraffinized according to recognized methods. in the laboratory and rehydrated
Gynaecological and non-gynaecological specimen as sputum, urine, FNAB, body effusions, lavages samples, wet fixed on a microscope slide

Step	Time
Deparaffinise the sections in the typical manner and rehydrate	
Stain in Mayer's hemalum solution or Hematoxylin Harris solution	3 min 3 min
Rinse in HCl solution 0.1%	2 sec
Differentiate in running tap water	3-5 min
Eosin Y solution 0.1% aqueous.	3-5 min
Rinse in tap water	30 sec
Dehydrate in ascending alcohol baths and clear in xylene or xylene substitute	
Mount the slides	

Specimens for use in histology and cytology must be completely anhydrous prior to being mounted.
Xylene should be added as a final stage in order to prevent turbidity brought about by solvents containing water

To carry out the mounting process, drop approximately 0.5 ml mounting agent onto a horizontal slide using a glass rod. This fills the space between slide and coverglass. As soon as the specimen has been covered with a homogeneous solution, cover with a coverglass, taking care to avoid air bubbles. Allow to harden over a period of 20-30 minutes in a horizontal position.

Result

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

Nuclei	dark blue
Cytoplasm, elastin, collagen	red-orange
Erythrocytes	yellow-orange

Evaluate the result by comparing it to what would be the age related normal values
Review of the samples helps in determining the need for ancillary studies.

An initial review of the patient's clinical background is necessary to use in conjunction with the result of the staining

Samples derived from the human body

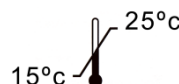
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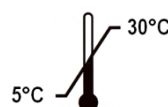
Diagnostics

Diagnoses are only to be made by authorised and trained persons. Valid nomenclatures must be used.
Further tests must be selected and implemented according to recognised methods.

Storage



Store the staining solution at +15°C to +25°C



Store the staining dye at +5°C to +30°C.
The solution and dyes must be used by the expiry date stated.

Shelf life



After first opening, the bottle can be used up to the expiry date when stored at +15°C to +25°C for the staining solution or +5°C to +30°C for the dye. The bottles must be kept tightly closed at all times.



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Auxiliary reagents

Cat. No	Description	Pack Size
36126	Microil Immersion oil tropical grade	100 ml
36104	Microil Immersion Oil	100 ml, 500 ml
36102	Lenzol Immersion Oil Gurr	100 ml
36194	Fractoil Synthetic Immersion Oil	500 ml
28975	Xylene Mixture of isomers Normapur Anal	1 l, 2,5 l, 5 l, 25 l
36125	DePeX [®] mounting medium	500 ml
36029	DPX mountant	100 ml, 500 ml

Precautionary measures on health hazards

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

Physical Hazard classification

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

The VWR safety data sheet is available on the Internet.

Instructions for environmental disposal

Used solutions and solutions that are past their shelf-life must
be disposed of as special waste according to local disposal
guidelines. VWR International can provide technical support for
local disposal solutions.



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