2C-285

Light green SF, solution according to Masson

In-vitro diagnostic agent

Description

The product 2C-285 is a ready-to-use solution for professional users in histology and cytology. The product comes in 2 different pack sizes: 2C-285.00250 (250ml bottle) and 2C-285.01000 (1l bottle)

Main components

Light green SF (CI 42095) 0.2%

Acetic acid ($C_2H_4O_2$) 0.2%

Purpose

"Light green SF" solution is used for cell diagnostics for the examination of histological samples (e.g. histological sections). The solution is used within the trichrome staining (e.g. Masson Goldner Trichrome) and is used for differentiated connective tissue imaging. The dye solution is intended for professional users.

Sample material and sample preparation

Sampling may only be carried out by qualified personnel. All samples must be processed with state-of-the-art technology. All samples must be clearly labelled.

Sample material: Sections of human tissue after fixation, for instance by means of buffered formol and fixation mixtures with ethanol and formalin and subsequent embedding in paraffin or frozen sections.

Test principle

Trichrome staining is based on simultaneous staining of several tissue components or by subsequent staining solutions. The basis of Masson Goldner trichrome staining is the different molecular size of the dyes (dispersity). After nucleus staining with iron haematoxiline solution according to Weigert, disperse dyes are used. While the fine-dispersion phase penetrates quickly into all structures using Ponceau solution, the coarse-dispersion phase penetrates more slowly using light green SF solution and stains the coarse structures first. The fine-dispersion phase is over-stained here. To avoid over-staining, the coarse-dispersion staining is interrupted before all the structures have been penetrated.

Staining

Before staining, deparaffinise the sections and rehydrate them via a descending ethanol series. After nucleus staining with Weigert's ferric haematoxylin-use solution, the samples are transferred to distilled aqua and watered under running tap water. Subsequently, the samples are first stained using fuchsin-ponceau solution and washed in acetic acid (1%). This is followed by staining with phosphormolybdic acid orange G and rinsing in acetic acid (1%). Finally, the specimens are stained with light green SF solution and washed again in acetic acid (1%). After being rinsed under running tap water, the specimens are dehydrated via an ascending ethanol series and transferred to xylene.

Waldeck GmbH & Co. KG
Havixbecker Str. 62
48161 Münster
Deutschland
Amtsgericht Münster
HRA 1926

Komplementärin:
Wahlig Beteiligungs- und
Verwaltungsgesellschaft mbH
Amtsgericht Münster
HRB 692

Geschäftsführer:
Wilhelm Wahlig
Ingo Gerdes

Bankverbindungen:
SPK Westmünsterland
IBAN:
DE49401545300036060184
BIC:
WELADE3WXXX

USt.-Id.-Nr.:
DE126046718
Steuer-Nr.:
5336/5779/0252
Gläubiger-ID:
DE67ZZZ00000021849

Kontakt:
Tel. +49 2534 970 0
Fax +49 2534 970 258
info@waldeck-ms.de
www.waldeck-ms.de

To ensure the differentiability of the target structures, suitable control specimens should be kept along with the staining.

Result

Cell nuclei	blue-black to brown
Cytoplasm	red
Muscles	brick red
Collagen connective tissue	green
Erythrocytes	orange-red

Precautionary measures

When removing the product, care must be taken to avoid contamination of the storage vessel. Once the solution has been removed, it must not be returned to the canister. If turbidity or solids appear, discard the product. The product is intended for single use and must not be reused.

Storage and shelf life

Store the unopened containers in a dry place at 15 to 25 °C, avoiding direct sunlight.
The shelf life is 2 years. See also the best-before date (BBD) on the label. Once the containers have been opened, the shelf life corresponds to the best-before date, as long as the storage conditions are observed and the solution is handled properly.

Safety notice

If any serious incidents occur in connection with the product, please report them to the manufacturer and the national authority.

Literature

Romeis, Mikroskopische Technik, Editors: Maria Mulisch, Ulrich Welsch, 2010, Springer Spektrum, 18th edition

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