



2C-210

Picro-indigocarmine solution
In-vitro diagnostic agent

Description

The product 2C-210 is a ready-to-use solution for professional users in histology. It is an aqueous dye solution mixed with picric acid. The product comes in 4 different pack sizes: 2C-210.00100 (100ml bottle), 2C-210.00250 (250ml bottle), 2C-210.01000 (1l bottle) and 2C-210.10000(10l canister).

Main components

Picric acid (CAS 88-89-1)	1.2g/L
Indigo carmine (CI 73015)	1.25g/L

Purpose

"Picro-indigocarmine solution" staining is used for cell diagnostics for the examination of histological specimens (e.g. histological sections) and is used for differentiated connective tissue imaging. At the same time, the solution serves as a pH indicator and is used in vital staining in the gastrointestinal tract to show mucosal changes.

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

In picro-indigocarmine staining, collagenous connective tissues turn blue. The dye solution as pH indicator colours above a pH value of 13 in yellow and below a pH value of 11.4 in blue. Indigocarmine solution is a redox indicator and turns yellow when it reacts.



Staining

Before staining, deparaffinise the sections and transfer them to distilled water via a descending ethanol series. After staining with picro-indigocarmine solution, the samples are washed in distilled water and transferred to xylene via an ascending ethanol series. The samples can be covered with a synthetic covering medium for subsequent examination under a microscope.

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

The usual staining protocols known from literature must be used. Staining may only be carried out by qualified personnel.

Result

Collagen connective tissue blue

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

<https://carmonja.com/produkt/indigo-carmin-1prozent/>