

IVD IN VITRO DIAGNOSTIC MEDICAL DEVICE **CE**

NAME SCHIFF REAGENT FOR MICROSCOPY

European Medical Device Nomenclature (EMDN) W01030708 **STAIN SOLUTIONS (HISTOLOGY/CYTOLOGY)**

Available packaging

477591	Schiff reagent	500 ml bottle
477592	Schiff reagent	Packaging 6X500 ml

Intended use:

Histological reagent for the identification of aldehydes and ketones

Principle

P.A.S (Periodic Acid Schiff) staining is the most widely used method to highlight the presence of 1,2 glycols in a tissue section. The action of the periodic acid oxidizes the glycol groups into aldehyde groups, which are revealed by the schiff reagent by a red mangenta coloring.

Organic macromolecules containing glycol groups 1,2 can be: polysaccharides, glucosaminoglycans, glycoproteins, glycopeptides, unsaturated lipids and phospholipids.

Main components

- Pararosaniline
- Hydrochloric acid

Warning and Precautions

The product is intended for specialized technical personnel.

The product is ready to use.

Read the information on the label about safety indications and precautionary statements carefully. Always **consult the safety data sheet** (accessible from the website at <https://www.carloerbareagents.com/cerstorefront/cer-exp>) for information on the risks presented by the product, the precautionary measures to be taken during use, first aid measures and response measures in the event of accidental release.

Do not use in case of damaged primary container.

Reagents are produced with uniform methods in accordance with bibliographic references and verified in accordance with quality control specifications.

Procedure

Rinse the sample with distilled water

- 1) Add 10 drops of periodic acid solution and leave in contact for 10 minutes
- 2) Wash under running water
- 3) Add 10 drops of Schiff's Reagent and leave in contact for 20 minutes
- 4) Wash with distilled water
- 5) Add 10 drops of Mayer's or Harris' Haemalum and leave in contact for 3 minutes
- 6) Wash under running water
- 7) Dehydrate with ethyl alcohol in an upward concentration of 70° to absolute
- 8) Add Xylene and mount the glass slide if necessary with balm

Results

Substances NOT positive	Magenta Red
Kernel	Purple - Blue



Remark

If in doubt about the analysis result, repeat the above procedure

Stability

The product is stable under normal storage conditions.

There is no particular risk of reaction with other substances under normal conditions of use.

Product shelf life

The product has a shelf life of 2 years, in unopened and properly stored packaging.

Close the bottle after use.

After the first opening, the product can be used for 6 months or within the total shelf life.

Storage conditions

Products are packaged in appropriate containers, with a sealed cap; They should be kept tightly closed, away from light, in a cool, dry place.

Recommended temperature range for storage: 5-30°C

Caution: In case of precipitation of dyes, the solution can be restored by heating in a water bath for a few minutes at 60°C; the formation of a "mirror" on the walls of the bottle indicates that the product has aged and it is therefore advisable to get rid of it.

Waste disposal

For more information regarding disposal, please refer to the Safety Data Sheet. It is advisable to follow appropriate safety precautions when handling, processing, and disposing of all clinical specimens, as pathogenic organisms may be present

References

Valdo Mazzi – Manuale di Tecniche Istologiche e Istochimiche – Piccin Editore, Padova.

Staining Procedures – Edited by G.Clark 4th Edition – Williams & Wilkins Baltimore, London.

English Version

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