

WARTHIN – STARRY
for spirochetes
04 – 040903

IVD In-vitro diagnostic medical device **CE**

CND Code: W01030799

number of tests 10 assays (until 4 slides for every assay)
procedure time 102 - 107 minutes
product validity 1 year
storage temperature darkness, 2-8°C
complementary equipment..... oven, glass stick jars, graduated pipette, jar for buffer dilution

- Expected aim** Product for the preparation of cyto-histological samples for optical microscopy.
- Application** Method for the demonstration of spirochetes.
- Principle** The argyrophilic reaction is based on the capacity of bacteria cell wall to reduce the silver on its metallic state binding them in a visible form.
- Method**
- 1) Bring section to distilled water.
 - 2) Preparation of 'impregnating-solution': place the slides container in the polystyrene support. Introduce in the container 13 ml of distilled water, add 4,5 ml of reagent A and 20 drops of reagent B. Shake briefly with a glass stick previously washed in distilled water.
 - 3) Introduce the slide in the solution and incubate for 90 minutes at 60-70°C.
 - 4) Take out the holder from oven and let it cool for 5 minutes.
 - 5) During the impregnating reaction prepare the 'developing solution'. VERY IMPORTANT: it is advisable to prepare the solution during the last 12 minutes of incubation started at point 3). Preheat in the oven at 50°C for 10 minutes a bottle C and a bottle D. Introduce the content of both the bottles in the second slide holder (pay attention to the temperature of the bottles – use protective gloves), shake briefly with a glass stick previously washed in distilled water, then introduce the content of a bottle E and shake again.
 - 6) Introduce the slide in the 'developing solution' and put in the oven at 50°C for 5-10 minutes.
 - 7) Wash in running tap warm water for 2 minutes.
 - 8) Dehydrate through ascending alcohols: xylene and mount.
- Results** Spirochete and other microorganisms black
Background..... golden brown
- Reagents**
- | | |
|--|-----------|
| A) Concentrated buffer solution..... | 1 x 50 ml |
| B) Silver nitrate concentrated solution..... | 1 x 12 ml |
| C) Developing solution: 1° component..... | 10 x 6 ml |
| D) Developing solution: 2° component..... | 10 x 6 ml |
| E) Developing solution: 3° component..... | 10 x 5 ml |
- Warning and precaution**
- It is necessary to use excellent distilled water.
 - Do not use poly-lysine coated slides.
 - Avoid the use of metallic object.
- The product must be used exclusively by specialized technical operators.
The product is classified as hazardous.
Read with attention the information written on the label (dangerous symbols, risks and safety phrases).
Consult always the safety data sheet where the information about the risks of the preparation, precautionary measures during use, first aid and disposal are available. Do not use if primary packaging is damaged.
- Storage** Store the preparation at 2-8°C. Keep the containers tightly closed.

Stability

After the first opening, the product is usable until the expiry date, if correctly stored.

Disposal

Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.

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