

DIAGNOSTIC DISCS**100 discs****Code: DD 503****1000 discs****DD 5031**

Information for Use

ITEST OPTOCHIN**for the identification of *Streptococcus pneumoniae*****Purpose and Usage:**

OPTOCHIN diagnostic discs are used for simple presumptive differentiation of *Streptococcus pneumoniae* from other viridans streptococci.

Principle:

The test is based on sensitivity of *Streptococcus pneumoniae* strains to optochin (ethylhydrocuprein hydrochloride). On the contrary, viridans streptococci are remarkably resistant to optochin.

Technique:

Inoculate densely and evenly blood agar plate with the tested strain (use a dense inoculum). Put OPTOCHIN disc by aseptic technique on the surface of the plate. Incubate 24 hours at 37°C under a higher tension of CO₂.

If you expect large numbers of pneumococci in the tested material you can use OPTOCHIN disc for presumptive identification of *S. pneumoniae* already in the primary culture.

NOTE: For better evaluation of results we recommend to use suspension of the tested strain in saline (2-3 colonies in 2 ml of saline) for inoculation of blood agar plates. Place OPTOCHIN disc on the plate after suckling off the remaining liquid and after drying the inoculum.

Evaluation:

If an inhibition zone develops after incubation, measure its diameter:

Inhibition zone (mm):

Result: ≥ 14 *Streptococcus pneumoniae*

< 14 *S. pneumoniae* is to be confirmed by the bile-solubility test

0 Viridans streptococci other than *S. pneumoniae*

Warning:

1. OPTOCHIN discs are designed for laboratory use only.
2. Keep the discs in a dark place at 2 – 8°C and use by the expiration date stated on the packaging.
3. Dispose unused IVD device and empty packaging according to Act no 185/2001 Coll., on Waste, according to following categories: 15 01 01 – paper packaging, 15 01 02 – plastic packaging, 15 01 07 – glass packaging, aluminium – 17 04 02, chemicals containing dangerous substances – 18 01 06. Dispose residue and unused IVD preparation in category 18 01 09 – other unusable pharmaceuticals. Dispose the waste, requiring special requirements for collection and removal with respect to prevention of infection, in category 18 01 03.