

01869 Hippurate Strips Kit

Test for identification of hippurate hydrolase activity of group *B streptococci*, *Campylobacter jejuni*, *Gardnerella vaginalis* and other microorganisms.

The test is based on hydrolysis of substrate (sodium hippurate) by the bacterial enzyme hippurate hydrolase and production of benzoic acid and glycine. Glycine produced by this enzymatic reaction is detected after 24 hours incubation in reaction with chromogen (ninhydrine) and the blue-purple substance is produced.

Composition:

The kit contains 50 Hippurate Strips (Cat. No. 92472) saturated with sodium hippurate and 350 mg Chromogen in 15 ml Diluent (Cat. No. 01875)

Storage:

Store dry at +2 to +8°C. Expiration date is stated on label.

Directions:

1. Prepare bacterial suspension from the pure 24 hours old culture of tested microorganism in 0,5 ml of saline solution. (Use narrow tube to be able to dip the whole paper zone of strip in suspension. The density of suspension reaches approx. to 2° on the McFarland turbidity scale).
2. Put substrate strip into the tube with suspension so that, the whole
3. paper zone is dipped and mix gently.
4. Incubate at 37°C for 24 hours.
5. When the incubation is finished, add alongside the wall of the tube approx. 200 ul (4 drops) of the reagent. Do not mix.
6. Incubate at laboratory temperature (18-24°C) for 5-10 minutes.
7. Read the result of the test and evaluate.

Interpretation of results:

Negative reaction: no colour change develops.

Positive reaction: a blue-purple colour develops mainly in the place of contact between the reagent and inoculum (so-called "ring").

The list below illustrates control strains in routine use:

Test Organisms (ATCC)	Result
<i>Enterococcus faecalis</i> (29212)	negative
<i>Streptococcus agalactiae</i> (4768)	positive
<i>Bacillus subtilis</i> (31193)	positive
<i>Streptococcus pyrogenes</i> (19615)	negative



References:

1. Cowan and Steels: Manual for the identification of medical bacteria, p.220, 221, 229, Cambridge University Press (1993)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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