PRODUCT SPECIFICATION SHEET

OXIDASE DISCS/STRIPS (ID003)/(IS002)

USE:
The Oxidase Test is a diagnostic test for the detection of the cytochrome c oxidase activity of microorganisms.

PRINCIPLE :
The Oxidase Test is a diagnostic test for the detection of the cytochrome c oxidase, an enzyme of the bacterial electron transport chain, activity of microorganisms within 10 seconds. When present, the cytochrome c oxidase oxidizes the reagent to (indophenols) blue/ purple color end product. When the enzyme is not present, the reagent remains reduced and is colorless. Oxidase Test is an important differential procedure which should be performed on all gram-negative bacteria that are to be identified.

REAGENT STORAGE AND STABILITY:
Store dry at +2 to +8°C for 1 year. Expiration can be prolonged when stored at –20°C.

COMPOSITION:
(1 vial contains 50 discs/ 10 strips)
The vial contains paper discs/ strips, saturated with oxidase reagent

TEST PROCEDURE:
- Pick the colony to be tested with wooden or platinum or disposable plastic loop and smear on the oxidase disc.
- Read result within 10 seconds.

PRECAUTION TO BE TAKEN WHILE PERFORMING THE OXIDASE TEST:
- Do not use Nickel-base alloy wires containing chromium and iron (nichrome) to pick the colony and make smear as this may give false positive results
- Interpret the results within 10 seconds, timing is critical
- Prevention of moisture during storage is necessary for proper function of test.
- Test performance requires sufficient humidity of tested culture or cultivation medium on which the suspect colonies are tested. (If not fulfilled, it is required to moisten the disc/ strip by adding approximately 10 µl of sterile distilled water on the discs/ strips).

INTERPRETATION OF RESULTS:

Negative reaction: no colour change or colour develops at the position of smeared colony after 10 seconds.

Positive reaction: a dark blue or dark purple spot develops at the position of smeared colony within 4 to 10 seconds.

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QUALITY CONTROL:
The list below illustrates control strains in routine use:

Organism	Results	
Pseudomonas aeruginosa ATCC 27853	Positive	a dark blue or dark purple colour
Escherichia coli ATCC 25922	Negative	no colour change

REFERENCES:

1. J.Gordon, J.W. McLeod, J. Path.Bact., 31, 185 (1928)
2. W.L. Gaby, C. Hadley, J. Bact., 74, 365 (1957)
3. K.J. Steel, J. Appl. Bact., 25, 445 (1962)

Further Information

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