

BDD027

## OXIDASE DISCS

## SPECIFICATIONS:

**APPEARANCE:** Filter paper discs of 6 mm diameter

## DIRECTIONS:

Oxidase reaction is performed by touching and spreading well-isolated colony on oxidase disc. The reaction is observed within 5-10 seconds at 25-30°C. A delayed positive reaction appears in 10-60 seconds whereas a change later than 60 seconds or no change is considered negative reaction.

## Cultural response:

Typical oxidase reaction given by 18-48 hour culture observed within 5-10 seconds at 25-30°C

Organism(ATCC)	Reaction	Colour
Pseudomonas aeruginosa (27853)	Positive	Deep purple blue
Neisseria gonorrhoeae (19424)	Positive	Deep purple blue
Staphylococcus aureus(25923)	Negative	No colour change
Escherichia coli(25992)	Negative	No colour change

## RESULTS:

Positive reaction: Deep purple colour.

Negative reaction: No colour change.

## Use:

Oxidase Discs are used for detection of oxidase production by microorganisms like Neisseria, Alcaligenes, Aeromonas, Vibrio's, Campylobacter and Pseudomonas, which give positive reactions and for excluding Enterobacteriaceae, which give negative reactions.

**Precautions :**For Laboratory Use.

1. Do not use stainless steel or nichrome inoculating wires, as false positive reaction may result from surface oxidation products formed during flame sterilization
2. Growth from media containing dyes is not suitable for testing
3. Timing is critical (5-10 sec) for interpretation of results.
4. Perform oxidase test on all gram-negative bacilli
5. Cytochrome oxidase production may be inhibited by acid production. False negative reactions may be exhibited by Vibrio, Aeromonas and Plesiomonas species when grown on a medium containing fermentable carbohydrate. Colonies taken from media containing nitrate may give unreliable results. The loss of activity of the oxidase reagent is caused by auto-oxidation which may be avoided by adding 0.1% ascorbic acid

**Storage:** Store at 2 - 8°C

**Packing:** 50 discs in vial

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### **TECHNICAL SHEET**

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