

137 mm x 218 mm



## **SBio Oxidase Disc**

**For Oxidase Testing**

### **SUMMARY AND PRINCIPLE**

Certain bacteria possess either cytochrome oxidase or indophenol oxidase (an iron-containing haemoprotein), which catalyzes the transport of electrons from donor compounds (NADH) to electron acceptors (usually oxygen). In the oxidase test, a colourless dye such as N, N-dimethyl-p-phenylenediamine serves as an artificial electron acceptor for the enzyme oxidase. The dye is oxidized to form indophenol blue, a coloured compound. The test is useful in the initial characterization of aerobic Gram-negative bacteria of the genera *Aeromonas*, *Plesiomonas*, *Pseudomonas*, *Campylobacter* and *Pasteurella*.

REF	970OD001
PACK SIZE	50 Discs

### **STORAGE AND STABILITY**

1. Disc in routine use should be stored at 2°C-8°C. Longer term storage should be at -20°C.
2. Stability of the Oxidase Disc is as per the expiry date mentioned on the label.

### **DIRECTIONS**

1. Oxidase reaction is carried out by touching and spreading 18-48 hour old well isolated colony on the oxidase disc.
2. The reaction is observed within 10-15 seconds at 25°C-30°C.
3. A change later than 10 seconds or no change at all is considered negative reaction.

### **QUALITY CONTROL**

**Appearance:** Blank filter paper discs of 6 mm-10 mm diameter.

**Cultural Response:** Typical oxidase reaction given by touching and spreading 18-48 hour culture on oxidase discs with sterile plastic loop within 10-15 seconds.

#### **Organisms (ATCC)**

*Escherichia coli* (25922)

*Pseudomonas aeruginosa* (27853)

#### **Zone of Inhibition**

Negative : No colour change till 60 seconds

Positive : Deep purplish blue colouration of disc within 15 seconds

### **WARRANTY**













This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### **REFERENCES**

1. Gordon J. and Mcleod J.W., 1928, J. Path. Bact., 31:185.
2. Gaby W.L and Hadley C., 1957. J. Bact., 74:356.

3. Steel. K. J. 1962. J. Appl. Bact. 25:445.
4. Data on file: Microxpress<sup>®</sup>, A Division of Tulip Diagnostics (P) Ltd.

**SYMBOL KEYS**

 Temperature Limit	 Manufacturer	 Batch Code	 Hygrosopic keep container tightly closed	 Date of Manufacture	 Received on
 Catalogue Number	 Consult Instructions for use	 Use-by Date	 <i>In vitro</i> Diagnostic Medical Device	 Authorised Representative	 Opened on



Singapore   
Biosciences PTE Ltd.

613 Hougang Avenue 8, HEX 03-428, Singapore 530613.

**EC REP**

CMC Medical Devices & Drugs S.L., C/ Horacio Lengo No. 18, CP 29006, Malaga, Spain