

Product Manual

【Product Name】

Oxidase Test Reagent

【Product Code and Packing Specification】

Code	Type	Specifications
029172	Liquid	50 test/box

【Product Usage】

Quality control is required for oxidase assays.

【Test Principle】

The oxidase oxidizes cytochrome C, and the oxidized cytochrome C then oxidizes the p-phenylenediamine reagent to form a purple complex, producing a color reaction.

【Formulation】

Formulation (per vial)	Content
N,N,N',N'-Tetramethyl-p-phenylenediamine hydrochloride	0.025g
Distilled water	2.5mL

【Instructions】

1. Add 1 drop of reagent to a small piece of clean filter paper, just enough to wet it;
2. Use a glass rod or inoculation loop (platinum or plastic) to pick up an appropriate amount of fresh bacterial moss and apply it on the paper;
3. Interpretation of results: blue-purple color appears within 30 seconds for positive, delayed reaction or no color change for negative.

【Quality Control】

1. Appearance: Colorless to light gray liquid, clear without precipitation.
2. Biology: Blue-purple color appears within 30 seconds as positive, delayed reaction or no color change as negative.

Quality control strain and number	Quality control requirement
<i>Pseudomonas aeruginosa</i> ATCC27853	Turns blue-purple, positive reaction;
<i>Escherichia coli</i> ATCC25922	Does not change color, negative reaction

【Storage Conditions and Shelf Life】

Store at 2-8°C away from light, valid for one year.

【Precautions】

1. After using the oxidase reagent, the lid should be covered and tightened in time, put back into the packaging box, and stored at 2~8°C away from light. If the reagent turns purple, it means that it has expired and cannot be used again.
2. The oxidase test must use fresh colonies cultured on solid culture medium for 18-24h. Colonies on EMB agar, iron-containing culture medium or glucose-containing culture medium or colored colonies cannot be used
3. The amount of reagent added to the filter paper should be just enough to soak it. Generally, one drop on the paper can be used for a test. If the paper is too wet, it will affect the contact between the bacterial moss and the air, delay the reaction, and cause false negatives
4. When using platinum or plastic inoculation loops or glass rods for oxidase tests, the presence of any iron (nickel-chromium alloy) can catalyze the oxidation reaction, resulting in false positives.

【Waste Disposal】

After testing, the contaminated items were sterilized by high pressure sterilization at 121°C for 30 minutes.

【Executive Standard】

Q/HKSJ 0704 Guangdong Huankai Microbial Sci.& Tech. Co.,Ltd. Enterprise Standard

【Explanatory Version】

May 14, 2019

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