

O.N.P.G. Test

Kit used for the identification and determination of the presence of β -galactosidase, an enzyme found in lactose-fermenting organisms.

• CONTENTS

O.N.P.G. Test 30 tubes
 1 Instruction sheet
Storage condition : Store at 2 - 6 °C

• PROCEDURE

1. Take a tube from the refrigerator and leave it on the test bench at room temperature.
2. With a sterile loop, suspend a well isolated bacterial colony.
3. Inoculate the tube and incubate at $36 \pm 1^\circ\text{C}$ for 1 - 24 hours.

• INTERPRETATION

O.N.P.G. Test is a kit used for the identification and determination of the presence of β -galactosidase, an enzyme found in lactose-fermenting organisms. Lactose fermenting bacteria possess two enzymes, lactose permease and β -galactosidase. The permease allows the lactose molecule to penetrate the bacterial cell where it is then broken into glucose and galactose by β -galactosidase. On hydrolysis, if the organism possesses β -galactosidase, ONPG cleaves into two residues : galactose and o-nitrophenol. ONPG is a colorless compound. However, o-nitrophenol is yellow, providing visual evidence of hydrolysis.

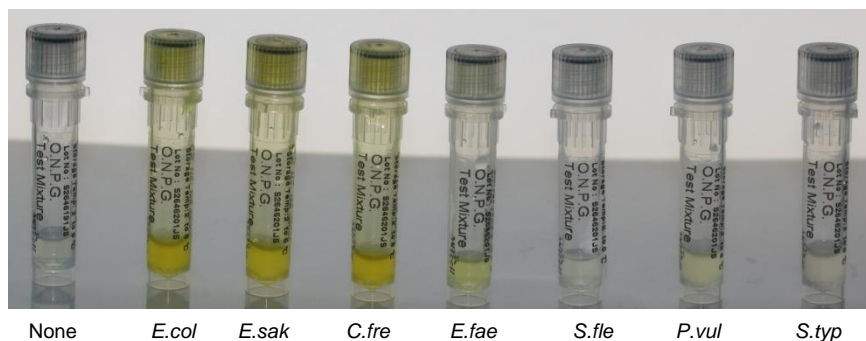
• QUALITY CONTROL FOR USE

Appearance : clear

Color : white (colorless)

Incubation conditions : $36 \pm 1^\circ\text{C}$ / 1 - 24 hours

Microorganism		O.N.P.G. Test
<i>Escherichia coli</i>	ATCC 25922	+ (Yellow)
<i>Enterobacter sakazakii</i>	ATCC 29544	+ (Yellow)
<i>Citrobacter freundii</i>	ATCC 8090	+ (Yellow)
<i>Enterococcus faecalis</i>	ATCC 29212	+ (Yellow)
<i>Shigella flexneri</i>	ATCC 12022	-
<i>Proteus vulgaris</i>	ATCC 13315	-
<i>Salmonella typhimurium</i>	ATCC 14028	-



• STORE

Store O.N.P.G. Test at 2 - 6°C away from light in its original package, until the expiry date shown on the label. Keep away from sources of heat and avoid excessive changes of temperature. Do not use after expiry date. Dispose of them if they show signs of deterioration. Eliminate if signs of deterioration or contamination are evident.

• PRECAUTION

The package of O.N.P.G. Test does not contain substances classified as hazardous under current legislation. The kit is used only for diagnostic use in vitro. After use, O.N.P.G. Test and the material that comes in contact with the sample must be decontaminated and disposed in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infectious materials.

• REFERENCES

1. Edwin H.Lenette: Manual of Clinical Microbiology (1995).
2. BLAZEVIC, D.J., and EDERER, G.M.: Principles of biochemical tests in diagnostic microbiology. 63-67. New York, John Wiley & Sons, 1975.

• PACKAGE

Cat. No : MB-88005 O.N.P.G. Test	30 tubes
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