Reference: 941970ZA Technical Data Sheet

Product: CATALASE REAGENT 3%



Specification

Reagent for detection of catalase activity.

Presentation

1 dropper bottlePackaging DetailsShelf LifeStorageBottle - Dropper1 box with a bottle - dropper 30 ml24 months8-25 °C

with: 30 ± 0.5 ml **Composition**

Hydrogen peroxide 3 % w/v

Description / Technique

Description:

Hydrogen peroxide, an end product of aerobic carbohydrate metabolism, is extremely toxic to bacteria. Bacteria containing the enzyme catalase break down hydrogen peroxide into oxygen and water. Microorganisms that possess catalase demonstrate the reaction by the rapid appearance of gas bubbles.

Catalase Test:

Add 2-3 drops of reagent on the colony. The appearance of bubbles on the colony confirms that the microorganism is catalase positive.

Note: this reagent concentration is indicated for most bacteria, for some anaerobics and *Neisseria* a more concentrated reagent should be used.

Quality control

Physical/Chemical control

Color: Colourless pH: at 25°C

Microbiological control

Dispense the reagent to isolated colonies

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Dispense reagent to the following microorganisms

Microbiological control according to ISO 11133:2014/A1:2018; A2:2020.

Microorganism	Growth
Enterococcus faecalis ATCC® 19433, WDCM 00009	Negative
Enterococcus faecium ATCC® 6057, WDCM 00177	Negative
Lactobacillus delbrueckii ssp ATCC® 7830	Negative
Staphylococcus aureus ATCC® 6538, WDCM 00032	Positive
Camp. coli-jejuni ATCC® 33291, WDCM 00005	Positive
Listeria innocua ATCC® 33090, WDCM 00017	Positive
Listeria ivanovii ATCC® 19119, WDCM 00018	Positive
L. monocytogenes ATCC® 13932, WDCM 00021	Positive

Sterility Control

Not Performed - Chemical Reagent without nutritive properties.



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Bibliography

- · In Balows, A., et al. Chapter 122. 1991 Manual of Clinical Microbiology. 6th Edition. American Society for Microbiology, Washington, D. C.
- · Cowan and Steel,s manual for identification of medical bacteria. 1993. 3rd. Edition edited and revised by G.I. Barrow and R.K.A. Feltham. Cambridge University Press, Cambridge USA.
- · Kinyou, 1915. American Journal of Public health 5:867
- . ISO 11133:2014/ Adm 1:2018/ Adm 2:2020/ Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

