

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1.This medium is general purpose medium and may not support the growth of fastidious organisms.

2. Avoid excessive heating as it is pernicious to the medium.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Light yellow to pinkish beige homogeneous free flowing powder

Gelling

Firm, comparable with 1.2% Agar gel.

Colour and Clarity of prepared medium

Reddish orange coloured, clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 5.19% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Colour of Colony	H2S
<i>Bacillus cereus</i> ATCC 10876	$\geq 10^4$	inhibited	0%		
<i>Escherichia coli</i> ATCC 25922	50-100	poor-fair	20-30%	red	negative reaction
<i>Salmonella Enteritidis</i> ATCC 13076	50-100	good-luxuriant	$\geq 50\%$	colourless	positive reaction, black centered colonies
<i>Salmonella Typhimurium</i> ATCC 14028	50-100	good-luxuriant	$\geq 50\%$	colourless	positive reaction, black centered colonies
<i>Shigella flexneri</i> ATCC 12022	50-100	good-luxuriant	$\geq 50\%$	colourless	negative reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	good-luxuriant	$\geq 50\%$	light pink	negative reaction
<i>Shigella sonnei</i> ATCC 25931	50-100	good-luxuriant	$\geq 50\%$	pink with bile precipitate	negative reaction
<i>Staphylococcus aureus</i> ATCC 25923	$\geq 10^4$	inhibited	0%		

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

Reference

1. Leifson, 1935, J. Pathol. Bacteriol., 40:581.
2. Hynes M., 1942, J. Path. Bacteriol., 54, 193-207.
3. Speck M. (Ed.), 1984, Compendium of Methods for the Microbiological Examination of Foods, 2nd ed., APHA, Washington, D.C.

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Disclaimer :

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