

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Semisolid, comparable with 0.3% Agar gel.

Colour and Clarity of prepared medium

Green coloured, clear to slightly opalescent gel forms in tubes as butts

Reaction

Reaction of 4.81% w/v aqueous solution at 25°C. pH : 7.4±0.2

pH

7.20-7.60

Cultural Response

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

Organism	Inoculum (CFU)	Motility	Fermentation w/ Sucrose/ Salicin	H ₂ S(with lead acetate strip)	Indole
<i>Proteus vulgaris</i> ATCC 13315	50-100	positive, growth away from stabline causing turbidity	acid & gas production or negative reaction	variable reaction	variable reaction
<i>Salmonella</i> Typhimurium ATCC 14028	50-100	positive, growth away from stabline causing turbidity	negative reaction	variable reaction	negative reaction
<i>Salmonella</i> Typhi ATCC 6539	50-100	positive, growth away from stabline causing turbidity	negative reaction	positive, blackening of the lower portion of the strip	negative reaction
<i>Shigella flexneri</i> ATCC 12022	50-100	negative, growth along the stabline, surrounding medium remains clear	negative reaction	negative,no blackening	variable
<i>Shigella sonnei</i> ATCC 25931	50-100	negative, growth along the stabline, surrounding medium remains clear	negative reaction	negative,no blackening	negative reaction
<i>Shigella schmitzi</i>	50-100	negative, growth along the stabline, surrounding medium remains clear	negative reaction	negative,no blackening	positive reaction,pink colour at the lower portion of the strip

Reference

1. Russell F. F., 1911, J. Med. Res., 25:217.
2. Kohn J., 1954, J. Path. Bacteriol., 67(1): 286.
3. Gillies R. R., 1956, J. Clin. Pathol., 9(4):368.

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