

Product Name : Tryptone Sulfite Neomycin Agar

Medium for anaerobic sulfite reducing bacteria detection in foods.

TYPICAL FORMULA (G/L)

Tryptone 15.0
Yeast Extract 10.0
Sodium Sulfite 1.0
Ammonium Ferric Citrate 0.5
Neomycin Sulphate 0.05
Polymyxin B Sulphate 0.02
Agar15.0
Final pH = 7.2 ± 0.2 at 25°C.

DIRECTIONS

Suspend 41.58 G of powder in 1 L of distilled or deionized water. Heat to boiling with frequent agitation until completely dissolved. Sterilize in autoclave at 115°C for 20 minutes. Dispense into final containers.

DESCRIPTION

Tryptone Sulfite Neomycin Agar is a medium for anaerobic sulfite reducing bacteria isolation and enumeration, mainly *Clostridium perfringens*, in foodstuffs.

TECHNIQUE

Cool the autoclaved medium to 45-50°C. Heat the sample in order to destroy vegetative cells and activate the spores. Inoculate 1 ml of tenfold dilutions of the sample into a sterile plate and add 15-20 mL of molten medium. Gently mix the inoculated plate and incubate at 46°C for 24 hours. Sulfite reducing bacteria grow with colonies surrounded by a black halo.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: slightly opalescent.

Color: light amber.

Incubation conditions: 36 ± 1°C / 24 hours / anaerobic atmosphere.

Microorganism	ATCC	Growth	Characteristics
<i>Clostridium perfringens</i>	13124	good	black colonies
<i>Escherichia coli</i>	25922	inhibited	

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STORAGE

The powder is very hygroscopic: store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C.

REFERENCES

1. Mossel, (1959). J. Sci. Agr. 662-669.

PACKAGING

Cat. No : MB-T1074 Tryptone Sulfite Neomycin Agar	500 G
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