
Product Name : SDS (Sodium Dodecyl sulphate Polymyxin Sucrose) Agar

Medium is used for enrichment, isolation and enumeration of *Vibrio vulnificus* from seafood samples as per APHA.

TYPICAL FORMULA (G/L)

Proteose Peptone	10.0
Beef Extract	5.0
Sucrose	15.0
Sodium Chloride	20.0
Sodium Lauryl Sulphate	1.0
Bromothymol Blue	0.04
Cresol Red	0.04
Agar	15.0
Final pH = 7.6 ± 0.2 at 25°C.	

DIRECTIONS

Suspend 66.08 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C and aseptically add 2 vials of Polymyxin B supplement (MB-P0816). Mix well. Dispense in petri dishes.

Polymyxin B supplement

1 vial content (each vial is sufficient for 500 mL of medium)

Polymyxin B 50,000 IU

DESCRIPTION

SDS (Sodium Dodecyl sulphate Polymyxin Sucrose) Agar is recommended by APHA for isolation and enumeration of *V. vulnificus* from sea foods. *V. vulnificus* is a causative agent of septicemic shock associated with consumption of raw oysters. *V. vulnificus* forms distinctive colonies which are round, opaque, blue to brownish, about 2 to 3 mm in diameter with a blue opaque halo around each colony. The medium contains peptone and beef extract which provide necessary growth nutrients like nitrogenous and carbonaceous compounds. Sucrose is a fermentable sugar. Addition of 2% sodium chloride to the medium provides necessary salinity for the growth of *Vibrio*. Bromothymol blue and cresol red act as pH indicators. Sodium dodecyl sulphate and polymyxin B are the selective agents.

TECHNIQUE

Inoculate the specimen spreading on the surface of the medium using a sterile loop. Incubate at 36 ± 1°C for 18 - 24 hours.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: very slightly to slightly opalescent.

Color: brown.

Incubation conditions: 36 ± 1°C / 18 – 24 hours.

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Microorganism	ATCC	Growth	Characteristics
<i>Vibrio cholerae</i>	15748	good	yellow
<i>Vibrio alginolyticus</i>	17749	good	yellow
<i>Vibrio vulnificus</i>	29306	good	blue

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. Massad, George, and James D. Oliver. "New selective and differential medium for *Vibrio cholerae* and *Vibrio vulnificus*." *Applied and environmental microbiology* 53.9 (1987): 2262-2264.

PACKAGING

Cat. No : MB-S0810 SDS (Sodium Dodecyl sulphate Polymyxin Sucrose) Agar	500 G
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