OXALIS Diagnostics Pvt. Ltd.

Technical Data

TCBS Agar (Thiosulfate-Citrate-Bile-Sucrose Agar) 100 g / 500 g

Recommended for isolating and cultivating Vibrio cholerae and other enteropathogenic vibrio's.

Product Presentation:

Cat No.	Product description	Pack Size
11200020100	TCBS Agar	100 Gram
11200020500	TCBS Agar	500 Gram

Principle

TCBS agar is composed of yeast extract, proteose peptone, sodium citrate, sodium thiosulfate, oxgall, saccharose, sodium chloride, ferric citrate, bromothymol blue, thymol blue and agar. Yeast extract provides nitrogen, carbon, vitamins and other growth factors and proteose peptone provide the nitrogen and amino acids. Sodium citrate, sodium thiosulfate and oxgall are selective agents to inhibit gram-positive organisms and suppress coliforms in addition to that increase the pH of medium. The alkaline pH of the medium enhances the growth of Vibrio cholerae. Saccharose is a fermentable carbohydrate. Sodium chloride maintain osmatic balance. Sodium Thiosulfate is a sulfur source and reacts with ferric citrate as an indicator to detect hydrogen sulfide production. Bromthymol blue and thymol blue are pH indicators. Agar is a solidifying agent.

Composition

Ingredients	Grams / Litre
Yeast Extract	5.00
Proteose Peptone	10.00
Sodium Citrate	10.00
Sodium Thiosulfate	10.00
Oxgall	8.00
Saccharose	20.00
Sodium Chloride	10.00
Ferric Citrate	1.00
Bromothymol Blue	0.04
Thymol Blue	0.04
Agar	15.00

Final pH (at 25°C) 8.6 ±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Pharmaceutical samples, clinical and non-clinical samples etc.

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light,

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follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 89.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ Do Not Autoclave.
- ✓ cool it to 42-45 °C and distribute aseptically in petri plates.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Dehydrated Appearance: Light tan with greenish ting colored free flowing homogeneous powder.
Prepared Appearance: Greenish blue colored slightly opalescent gel forms in petridishes

Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/IP and growth is observed after an incubation at 35°C-37°C for 18 to 48 hours.

Cultural Response :

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
Vibrio cholerae	ATCC 15748	Good	35°C -37°C	18 Hours
Escherichia coli	ATCC 25922	Inhibited	35°C -37°C	18 Hours

Interpretation of Results

- ✓ Examination of plates for growth after completion of incubation period.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.
User must be ensure safe disposal of used or unusable preperation of the products.

Reference

1. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
2. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976)

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