

TECHNICAL DATA SHEET

Anaerobic Tryptone Soya Agar

Principle

Anaerobic Tryptic Soya Agar is composed of tryptone, soya peptone, yeast extract, sodium chloride, hemin, vitamin K1, L-cystine and agar. Tryptone, soya peptone, and yeast extract provide carbon, nitrogen, vitamins, and other essential nutrients. Sodium chloride maintains osmotic balance. Additional agar, hemin, vitamin K1, and L-cystine provide nutrients necessary for the cultivation of anaerobes.

Use: For screening of anaerobes in cosmetics such as Talcum powder..

Contents*

Ingredients	Gram/Litre
Tryptone	15.000
Soya peptone	5.000
Yeast Extract	5.000
Sodium chloride	5.000
Hemin	0.05
Vitamin K1	0.010
L-Cystine	0.400
Agar	20.000
pH at 25°C	7.5 ± 0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 50.41 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Cosmetic products

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Precautions to be taken

All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige colored free flowing, homogeneous hygroscopic powder.
Reaction of 5.04% solution	7.5 ± 0.2 at 25°C
pH	7.30 - 7.70
Gelling	Firm comparable with 2.0% agar gel
Color and clarity of ready medium	Light amber colored clear to slightly opalescent with fine precipitate.
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h.
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h.
Negative control	Performed using sterile distilled water.

Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate in anaerobic conditions at 35±2.0°C for 24-48 hours.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Bacteroides fragilis</i>	25285	50-100	Luxuriant
<i>Bacteroides vulgatus</i>	8482	50-100	Luxuriant
<i>Peptostreptococcus anaerobius</i>	27337	50-100	Luxuriant
<i>Bacteroides melaninogenicus</i>	25611	50-100	Luxuriant

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
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D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1
4. MacFaddin, J. D. (1985). Media for isolation-cultivation identification-maintenance of medical bacteria, p. 797, Vol. 1. Williams & Wilkins, Baltimore, MD

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