

TECHNICAL DATA SHEET

Endo Agar

Principle

Endo agar is recommended by APHA for the microbiological examination of water and waste water, dairy products and food products. The media is composed of peptone, lactose, Dipotassium phosphate, sodium sulphite, basic fuchsin and agar. Peptone is source of nitrogenous substances and other essential growth nutrients for the organisms. Lactose is carbon source and phosphate is act as buffering agent. Sodium sulphite and basic fuchsin is selective agent inhibit the growth of gram-positive bacteria. Coliforms give pink color colonies due to lactose fermentation while lactose non-fermenters produce colorless colonies.

Use: For confirmation of members of coliform group from clinical as well as non-clinical specimens.

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Lactose	10.000
Dipotassium phosphate	3.500
Sodium sulphite	2.500
Basic fuchsin	0.500
Agar	15.000
pH at 25°C	7.5 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 41.50 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool it to 45-50°C and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically. If the solidified media is dark red in color add few drops of 10% sodium sulphite solution till pink color and boil.

Specimens types analyzed

Clinical and pathological samples, water and food and dairy samples.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. 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 pink to purple colored, free-flowing, homogeneous
Reaction of 4.15% solution	7.5 $\pm$ 0.2 at 25 °C
pH	7.3- 7.7
Gelling	Firm comparable with 1.5 % agar gel
Color and clarity of ready medium	Orange pink colored, clear opalescent gel with fine precipitate
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after an incubation at 33-37°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Colony color
<i>Escherichia coli</i>	8739	Luxuriant	$\geq$ 60%	Pink with metallic sheen
<i>Salmonella typhimurium</i>	14028	Luxuriant	$\geq$ 60%	Colorless to pink
<i>Klebsiella aerogenes</i>	13048	Luxuriant	$\geq$ 60%	Pink
<i>Pseudomonas aeruginosa</i>	27853	Luxuriant	$\geq$ 60%	Colorless
<i>Shigella flexneri</i>	9199	Luxuriant	$\geq$ 60%	Colorless
<i>Enterococcus faecalis</i>	14506	Poor	$\geq$ 20%	Light Pink
<i>Staphylococcus aureus</i>	25923	Inhibited	--	--

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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. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
2. Jorgensen, J. H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015), Manual of Clinical Microbiology, 11th Edition. Vol. 1 Wastewater, 23rd Ed., APHA, Washington, D.C.
3. Salfinger Y., and Tortorello M.L. Fifth (Ed.), (2015), Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
4. Wehr H. M. and Frank J. H., (2004), Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.

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