

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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TECHNICAL DATA SHEET

Andrade Peptone Water

Principle

Andrade peptone water is modification of peptone water used for biochemical identification and differentiation of different bacteria on basis of ability to metabolize carbohydrates and related compounds. This media contains Andrade indicator, If the test organism metabolizes the added carbohydrate, acids are produced, thereby lowering the pH of the medium. This causes a subsequent color change of the indicator, from light pink to red. If the added carbohydrate is not metabolized, the medium remains light pink colored. Gas produced during fermentation is collected in the Durhams tube. The medium is dark pink when hot but becomes light pink on cooling. Test carbohydrate solutions should be sterilized separately and aseptically added to sterile Andrade peptone water. The biochemical identification of organisms capable of growing in this medium is made by various sugar fermentation results.

Use: As a basal medium to study fermentation reactions by adding carbohydrates

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Sodium Chloride	5.000
Andrade Indicator	0.100
pH at 25°C	7.4±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 15.10 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically in test tubes containing inverted Durham's tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to room temperature and aseptically add sterile stock solution of carbohydrate to a final concentration of 0.5% to 1.0% (w/v).

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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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	Pinkish beige colored free flowing, homogeneous powder
Reaction of 1.51% solution	7.4 ±0.2 at 25°C
pH	7.20- 7.60
Color and clarity of ready medium	Light pink colored clear solution without any 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

Cultural characteristics observed after incubation at 33-37°C for 18-24 hours. (Inoculum 50-100 CFU)

Organism	Acid in absence of dextrose	Gas in absence of dextrose	Acid with added dextrose	Gas with added dextrose
<i>Escherichia coli</i> (ATCC 8739)	Negative reaction	Negative reaction	Positive reaction, color changes to pink red	Positive reaction Bubble formation
<i>Salmonella typhimurium</i> (ATCC 14028)	Negative reaction	Negative reaction	Positive reaction, color changes to pink red	Positive reaction Bubble formation
<i>Shigella flexneri</i> (ATCC 9199)	Negative reaction	Negative reaction	Positive reaction, color changes to pink red	Negative reaction No bubble formation

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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

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5. MacFaddin J. F., (1985), *Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria*, Vol. I, Williams and Wilkins, Baltimore.

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