

Andrade Lactose Peptone Water

Liquid culture medium for the identification of microorganisms from clinical and nonclinical specimens.

TYPICAL FORMULA	(g/l)
Peptone	10.0
Sodium Chloride	5.0
Lactose	10.0
Andrade's Indicator (Acid-Fuchsin)	0.1
Final pH 7.5 ± 0.2 at 25°C	

DESCRIPTION

Andrade Lactose Peptone Water is a culture medium used for fermentations studies and differentiations of microorganisms, especially Enterobacteriaceae, based on the ability to ferment lactose.

PRINCIPLE

Peptone provides nitrogen, vitamins, minerals and amino acids for organisms growth. Sodium chloride maintains osmotic balance in the medium. Lactose is the fermentable carbohydrate providing carbon and energy. Andrade's indicator is a solution of acid-Fuchsin that changes colour to pink-red if the test organism metabolizes lactose lowering the pH.

PREPARATION

Suspend 25.1 g of powder in 1 liter of distilled water. Mix well and dissolve by heating with frequent agitation. Dispense into appropriate containers containing inverted Durham's tube. Autoclave at 121°C for 15 minutes.

TECHNIQUE

Inoculate the medium with the test sample. Incubate at 35 ± 2°C for 18-24 hours.

Note: The bottles or tubes containing the medium should be inspected before inoculation to confirm that they are clear, colourless or only slightly pink and there is no air trapped in the Durham tube. Although most reactions are complete after 24 h, it may be necessary to extend incubation for observing late reactions.

INTERPRETATION OF RESULTS

Examine for the colour change of the medium and gas production. Compare results with the uninoculated control.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, 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 the prepared medium at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used by properly trained operators only.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

- Cowan, S.T. (1974). Manual of Identification of Medical Bacteria. Second edition. Cambridge United Press.
- MacFaddin, J.F. (1985) Media for Isolation-Cultivation-Identification-Maintenance-of Medical Bacteria. Vol. 1. Williams and Wilkins. Baltimore.



PRODUCT SPECIFICATIONS

NAME

Andrade Lactose Peptone Water

PRESENTATION

Dehydrated medium

STORAGE

10-30°C

PACKAGE

Ref.	Content	Packaging
610118	500 g	500 g of powder in plastic bottle
620118	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.5 ± 0.2

USE

Andrade Lactose Peptone Water is a culture medium used for the identification and differentiations of microorganisms from various sources on the basis of their ability to ferment lactose

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous

Colour: pinkish

Prepared medium

Appearance: clear

Colour: colourless to slightly pink

SHELF LIFE











4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control
Inoculum for productivity: ≤100 CFU
Incubation conditions: 18-24 h at 35 ± 2°C

Microorganism		Growth	Acid	Gas
<i>Escherichia coli</i>	ATCC® 25922	Good	Positive	Positive
<i>Salmonella</i> Enteritidis	ATCC® 13076	Good	Negative	Negative
<i>Shigella flexneri</i>	ATCC® 12022	Good	Negative	Negative
<i>Klebsiella pneumoniae</i>	ATCC® 13883	Good	Positive	Positive
<i>Proteus mirabilis</i>	ATCC® 25933	Good	Negative	Negative

TABLE OF SYMBOLS

 Batch code	 <i>In vitro</i> Diagnostic Medical Device	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Consult instruction for use	 Keep away from heat sources



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