

A0715 Andrade Peptone Water

Andrade Peptone Water is a basal medium to which various carbohydrates can be added to study fermentation reactions, particularly of members of Enterobacteriaceae.

Composition:

Ingredients	Grams/Litre
Peptic Digest of Animal Tissue	10.0
Sodium Chloride	5.0
Andrade Indicator	0.1
Final pH 7.4 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Light yellow colored, with a pink tinge homogeneous, free flowing powder.
Color and Clarity: Light pink colored, clear solution without any precipitate.

Directions:

Suspend 15.1 g of Andrade Peptone Water in 1000 ml of distilled water. Dissolve the medium completely and dispense 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 a sterile stock solution of a carbohydrate to a final concentration of 0.5% to 1.0% (w/v).

Principle and Interpretation:

Andrade Peptone Water is used for studying the various carbohydrate fermentation patterns of different organisms. Peptic digest of animal tissue, provide nitrogenous compounds and other essential growth nutrients. Sodium chloride is for the osmotic balance. Andrade indicator is a solution of acid fuchsin which when titrated with sodium hydroxide changes color from pink to yellow. The medium is pink when hot but becomes straw colored on cooling. Test carbohydrate solutions should be sterilized separately and aseptically added to sterile Andrade Peptone Water.

Cultural characteristics after 18-24 hours at 35°C.

Organisms (ATCC)	Growth
<i>Escherichia coli</i> (25922)	+++
<i>Salmonella typhi</i> (6539)	+++
<i>Shigella sonnei</i> (25931)	+++

References:

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

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

