

# Andrade Peptone Water



Medium used to study fermentation reactions by adding various carbohydrates.

## • CONTENTS (Liter)

Peptone	10.0 g
Sodium Chloride	5.0 g
Andrade Indicator	0.1 g
Final pH = 7.4 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 15.1 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in final tubes with Durham tubes. Add 0.5 mL of a sterile carbohydrate solution (10%) into each tube. If necessary, dispense medium before autoclave.

## • INTERPRETATION

Andrade Peptone Water is a medium used used to study fermentation reactions by adding various carbohydrate s. Peptone provides nitrogen, carbon, vitamins and minerals. Sodium chloride maintains osmotic balance. Andrade indicator is a solution of acid fuchsin which when titrated with sodium hydroxide; changes color from pink to yellow.

## • TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light yellow with pink tinge.

### Prepared medium

Appearance: clear with no precipitate.

Color: light pink.

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth	Acid with added dextrose	Gas with added dextrose
<i>Escherichia coli</i>	25922	50-100	good	+	+
<i>Salmonella typhimurium</i>	14028	50-100	good	+	+
<i>Klebsiella pneumoniae</i>	13883	50-100	good	+	+
<i>Shigella flexneri</i>	12022	50-100	good	+	-
<i>Proteus vulgaris</i>	13315	50-100	good	+	+

**• STORE**

The powder is very hygroscopic. Store the powder at room temperature, 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 prepared medium at 2-8°C.

**• REFERENCES**

1. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
2. Cowan S. T. and Steel K. J., 1974, Manual of Identification of Medical Bacteria, 2nd Ed., Cambridge United Press.
3. Finegold S. M. and Baron E. J., 1986, Bailey and Scotts Diagnostic Microbiology, 7th Ed., The C.V. Mosby Co., St. Louis
4. Murray P. R., Baron E. J., Jorgensen J. H., Pfaller M. A., Tenover F. C., Tenover F. C., (Eds.), 8th Ed., 2003, Manual of Clinical Microbiology, ASM, Washington, D.C.

**• PACKAGE**

Cat. No : MB-A1119 Andrade Peptone Water	500 G
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