



## 0.1% Peptone Water

LQ172C

Recommended as a diluent for microbial enumeration purposes

### Composition\*\*

### Gms / Litre

Peptone	1.000
Final pH ( at 25°C)	7.1±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Label the ready to use LQ172 bottle. Inoculate the medium with the pre-determined volume of the sample or 50-100 CFU of a known culture (as positive control) and incubate at 35 - 37°C for 24-48 hours.

### Principle And Interpretation

Peptone Water, 0.1% is a minimal nutrient media designed to reduce multiplication of microorganisms (1,2). Peptone Water is a non selective media can be utilized as a base for carbohydrate fermentation studies with the addition of sugar and indicators such as bromocresol purple, phenol red or bromothymol blue and for production of indole (3).

### Quality Control

#### Appearance

Sterile clear 0.1% peptone water in glass bottle.

#### Colour

Colourless medium

#### Quantity of medium

100ml of medium in glass bottle

#### Reaction

6.90- 7.30

#### Sterility test

Passes release criteria

#### Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 24-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 25922 (00012*)	good	good
<i>Staphylococcus aureus</i> ATCC 25923 (00013*)	good	good
<i>Staphylococcus aureus</i> ATCC 6538 (00032*)	good	good
<i>Candida albicans</i> ATCC 10231 (00054*)	good	good

## Storage and Shelf Life

On receipt, store between 15-25°C. Use before expiry date on the label.

## Reference

1. American Public Health Association. Standard Methods for the Examination of Water and Wastewater, 23rd ed. APHA, Washington, D.C.
2. APHA Technical Committee on Microbiological Methods for Foods. 2001. Compendium of Methods for the Microbiological Examination of Foods, 4th ed. APHA, Washington, D.C.
3. MacFaddin J., 1980, Biochemical Tests for Identification of Medical Bacteria, 2nd ed., Williams and Wilkins, Baltimore.

## Packing

LQ172C-1X100ML, 10X100ML, 5X100ML	0.1% Peptone Water	100 ML media in screw capped bottle
LQ172CDT -1X400ML, 5X400ML	0.1% Peptone Water, Triple Packed	400 ML media in bottle with Broad neck 32 mm broad neck bottle
LQ172CCHT - 1X200ML, 5X200ML	0.1% Peptone Water, Triple Packed	200 ML media in bottle with Broad neck 32 mm broad neck bottle
LQ172CHT -1X100ML, 5X100ML	0.1% Peptone Water, Triple Packed	100 ML media in bottle with Broad neck 32 mm broad neck bottle

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