



Technical Data Sheet

PA Coliform Test kit

PA Coliform Test Kit is used for the detection of presence or absence of coliform bacteria from water samples.

Product Presentation:

Cat No.	Product description	Pack Size
21010010001	PA Coliform Test	01 Test

Principle:

The presence or absence of coliform group of bacteria is the principle indicator of suitability of water for domestic, industrial or other uses. Presence-absence procedures can be effectively used to monitor water from treatment plants and distribution systems. The presence-absence test for the coliform group is a simple modification of the multiple tube procedure. Simplification, by use of one large test portion (100 mL) in a single culture bottle to obtain qualitative information on the presence or absence of coliforms, is justified on the theory that no coliforms should be present in 100 mL of a drinking water sample.

The medium contains nutrients required for the growth of coliforms. Lactose is the fermentable carbohydrate and energy source for bacterial metabolism. Phosphates provide buffering action while sodium lauryl sulphate inhibits organisms other than coliforms. Bromocresol purple is the pH indicator, which turns yellow at acidic pH.

Type of specimen:

Domestic water, Industrial water, water from treatment plants and distribution systems.

Kit Content:

1. One sterile empty transparent bottle (100 mL capacity).
2. Dehydrated medium in a vial; adequate for 100 mL sample.

Directions for use:

1. Collect 100 mL water to be tested in the sterile bottle provided in the kit.
2. Add entire quantity of dehydrated medium in water sample and dissolve by swirling.
3. Incubate the bottle for 24-48 hours at 35°C-37°C.
4. Observe for colour change.

Storage and Stability:

- ✓ Store in a cool, dry place at 15°C-25°C away from bright light.
- ✓ Stability of the kit is as per the expiry date mentioned on the label.

FACTORY & OFFICE

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Quality Control:

Dehydrated media appearance: Dark yellow coloured, homogeneous free flowing powder.

Prepared media appearance: Purple coloured, clear solution obtained on addition of media in 100 mL water.

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

Organisms	Type Culture	Growth	Colour Change
<i>Escherichia coli</i>	ATCC 25922	Good	Yellow
<i>Enterobacter aerogenes</i>	ATCC 13048	Good	Yellow
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i>	ATCC 14028	Good	No Colour change
<i>Enterococcus faecalis</i>	ATCC 29212	Partial Inhibition	Slight Yellow

Interpretation of Results:

Colour of solution after incubation at 24-48 hours	Interpretation
Purple	No presence of coliforms
Yellow	Coliforms present

Warranty:

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal:

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.

User must ensure safe disposal of used or unusable preparation of the products.

Reference:

- Comparison of membrane filter, multiple fermentation tube and presence-absence techniques for detecting total coliforms in small community water systems, Nicholas J; Jacobs *et al.*; Appl. Environ. Microbial. May 1986, 51 p. 1007- 1012.
- Standard Methods for the Examination of Water and Wastewater 20th edition, APHA.

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