

Self Food Quality Care

Drinking coliform-contaminated water can cause gastrointestinal tract diseases. Contamination of coliforms indicates poor quality of water and ice. According to the Ministry of Public Health's Act No. 61 (1981 B.C.) and No.78 (1984 B.C.), specified that coliforms MPN value must be lower than 2.2 in 100 ml. of water and ice. In fact, excess amount of coliforms (beyond standard) are still found in water and ice. The Department of Medical Sciences has developed a test kit for consumers to detect coliforms in water and ice and get the result within 24 hours.

Health Impact

Contaminated water and ice with excess amount of coliforms may be contaminated with food poisoning bacteria which can cause diarrhea, vomiting, fever, headache, or even death.

Target Sample

Drinking water, potable water and ice

Number of Tests /Kit: 20 tests

Sensitivity of Test Kit

Lowest detected amount, 1 colony in 1 milliliter (ml) of water.

Test Kit Tool

Sterile syringes	20 pcs
Test papers (in black envelope)	20 pcs
Sterile plastic bag No.1	20 pcs
Sterile plastic bag No.2	20 pcs
Cotton ball with alcohol	1 set
Disinfectant	1 bottle
Test Kit manual	1 sheet

Notice

1. In case of collecting water sample from water pipe.

Using cotton ball soaked with alcohol, rub the tap area which the water run for a while. Collect water sample in a sterile bag no.1 about 2/3 of total volume. Tightly close the bag and immediately test.

2. In case of ice sample

Using a sterile plastic bag no.2 turn inside out (beware not let the inside of the bag contact anything). Insert hand inside this plastic bag and pick up ice needed to test into a sterile plastic bag no. 1 until nearly full, tightly close the

bag. Leave the ice totally melt, and immediately test.

Procedure



1. Examiner uses cotton ball soaked with alcohol, rub both hands and the opening of sample container.



2. Vigorously shake the sample container at least 25 times

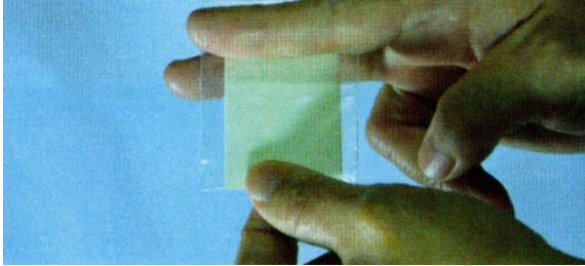


3. Tear a syringe package at tear mark, pull the syringe out (beware not to

contact the bottom part of syringe with anything in steps 3 and 4)



4. Draw up 1 ml. of water sample, touch tip of syringe to test paper in plastic sachet and inject all.

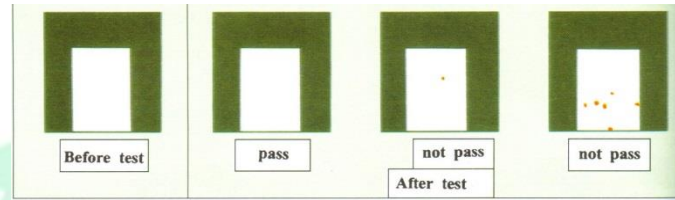


5. Gently remove excess air from plastic sachet, and tightly close.



6. Keep test paper sachet in the dark or wrap with non-transparent material and leave at room temperature for 24 hours.

Evaluation



Before test pass not pass not pass
After test

Red spot detected on the test paper indicates the contamination of coliforms out of standard (number of red spots is equal to the number of coliforms in 1 ml. of water and ice sample).

Procedure After test Pour disinfectant into test paper sachet about 1/3 of sachet to destroy microorganisms. Tightly close and discard.

Precaution

- In case of contact disinfectant, wash with clean water.
- Keep test kit out of reach of children.

Keeping / Age

Keep in refrigerator / 1 Year

Test Kit of Coliforms in water and Ice



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