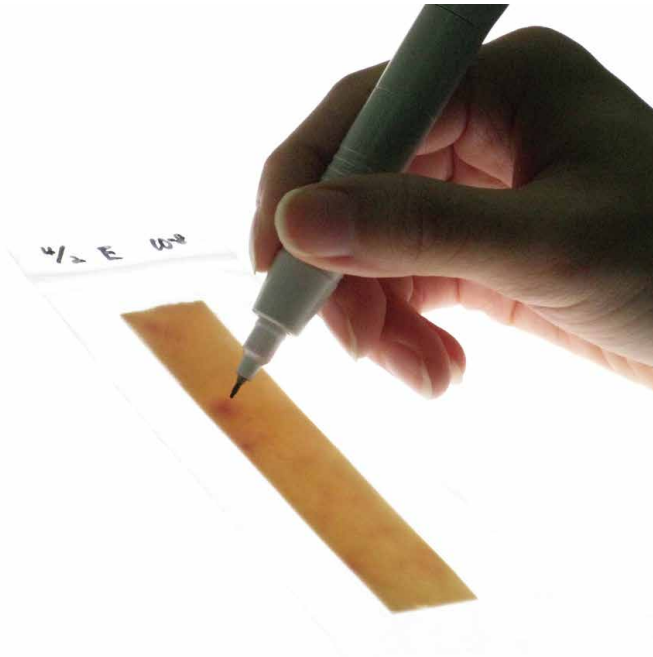


# Test Paper

## General Bacteria Coli form Group



**Easy**  
**Fast**  
**Long Seller**

This product is very simple testers treated with certain microbe growth promoters for checking bacteria contamination condition. You can test not always liquid sample but also solid surface sample. Anybody can simply use this paper in the field without special equipment or skills.

### **Usage Example of General Bacteria**

\*General food except daily products, cooking ware, and so on.

### **Usage Example of Coli form Group**

- \*Testing milk, drinking water, fresh food, frozen food and other foods drinks.
- \*Testing table ware and cooking ware or other facilities for food processing.
- \*Testing swimming pool water, public baths, and other.
- \*Testing industrial effluent, stockyard effluent, and other.

### **Why choose SIBATA?**

#### **Easy**

SIBATA's test paper is easy to use without technical knowledge.

This is a simple easy test kit for daily use.

Disposal work is easier than dish

#### **Fast**

This can be measured relatively faster.

Incubation time is 24hours for general bacteria and 15 hours for coli form group.

#### **Long Seller**

Since starting selling the products in 1980, it is used as a screening kit as an alternative to the field of hygiene management.

# measuring method

## Liquid Sample

Shake up

## Semifluid Sample

Shake up the sample and Physiological saline

## Solid Sample

Homogenize the sample and physiological saline by stomacher or homogenizer.

## Solid Surface Sample

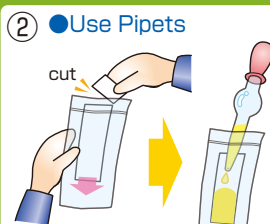
① Put \*sterile physiological saline into a sterilized container, then soak a sterilized cotton bud or gauze in it to make it moisten.

② Wipe out the surface of the sample with the bud or gauze.

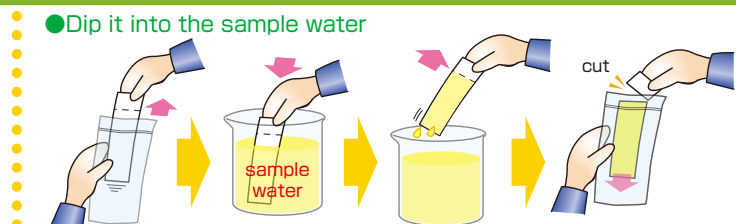
③ Shake up the bud or Gauze in the container and take it out. The sterile physiological saline in the container becomes a sample.



① Open the polyethylene pouch, pinch the top of test paper and take it out.



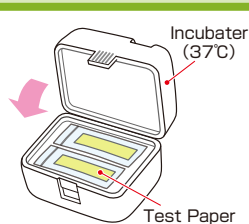
② ● Use Pipets  
Drop 1mL of the sample water on the test paper.



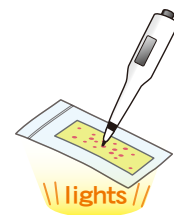
● Dip it into the sample water  
Dip it into the sample water, pull it out and shake off the extra water. Put the sample test paper into the polyethylene pouch, cut the perforation line and throw away the top.



③ Push the air out of the pouch. Then seal the fastener.



④ Put It In a thermostat and incubate it at 35-37°C.  
Coli form Group ••• 15 hours  
General Bacteria ••• 24 hours



⑤ Count the number of spots (colonies).

\*Sterile distilled water or cold water after boiling can be used as sterile physiological saline.

# Frequently asked questions



## Q: What are ingredients impregnated in the paper?



**General Bacteria** : cellulose fiber, peptone, meat extract, glucose, yeast extract, TTC,  
**Coli form group** : cellulose fiber, peptone, lactose, pH control chemicals, yeast extract, sodium deoxycholate, TTC,

## Q: How long is the expiration date?



Approximately 2 years (if in a cool and dark place). It is described on the package.

## Q: Is incubating time for general bacteria is 24 hours at 35 °C and 37°C?



There is temperature gap of 2°C but both incubation times are 24 hours. Warm and genial temperature like body temperature is appropriate.

## Q: How can I dispose a used test paper?



Please let the paper dry and dispose as instructed in your local government, and besides, it is much easier than Petri dish.

## Q: Why does a paper become blurry red?



Because of too many bacteria and overlap considerably, whole surface becomes red coloration.

## Q: Can anyone use this paper?



Yes, this is very simple kit so for those who does not have a technical knowledge. Special equipment and skills are not required and incubation time is short. You can check daily hygiene management without any circumstance.

## Q: What should be prepared for testing?



Please use your thermometer and colony counter (if necessary). If you don't have them, we highly recommend you our CALBOX CB-101 and handy colony counter.



|                  |                      |
|------------------|----------------------|
| Code No. / Model | 080510-32 / CB-101   |
| Heater           | 20W                  |
| Setting Temp.    | 37°C(fixed)          |
| Temp. display    | Thermometer          |
| No of papers     | 40 sheets acceptable |
| Dimensions       | 240W x 160D x 82Hmm  |

Thermostat for test of Bacteria called "CALBOX" model CB-101 is a small thermo-stated incubator used for general bacteria culture and coli form group.



|             |                                                |
|-------------|------------------------------------------------|
| Code No.    | 051250-03                                      |
| Indication  | digital 5 figures                              |
| Battery     | lithium battery(CR-2032) 3V                    |
| Dimensions  | 181W x 28D x 16Hmm                             |
| Weight      | approx 35g                                     |
| Accessories | 2 permanent markers(1 black, 1 blue), 1battery |

This is a stylus pen called "handy colony counter" to count colonies on a test paper.

## Estimation of General Bacteria

The main ingredient of this test paper is TTC used as color former. Therefore, the test can not indicate all the various kinds of general bacteria, and by the following way, the number of general bacteria is given as a standard value. For example, in Japan, the samples are classified into 6 kinds, the general bacteria number of every kind is valued by the product of spot number by a coefficient. When this general bacteria test paper is used in other regions or countries, water samples must be simultaneously examined with this test paper and standard method (See: *classified table of sample --- Spot number limited to 10 – 100*). Then, from the repeated results, each coefficient will be decided for an easy test method. If spot number is less than ten, extend the incubation time for another 24 hours (total 48 hours), and the general bacteria number will be nearly as it appears.



### Sample Classified Table Example: in Japan

| No. | Kinds of Water                                                                      | Coefficient |
|-----|-------------------------------------------------------------------------------------|-------------|
| 1   | Water from spring or well, industrial water, and other.                             | 4           |
| 2   | Water from river, fountain, and other.                                              | 2           |
| 3   | Water from bath, and other.                                                         | 3           |
| 4   | Rotten water, water from pools or ponds, and other.                                 | 3           |
| 5   | Bean curd or other foods soaked water in a package, and other. Especially in summer | 10          |
| 6   | Water mixing oil (cutting oil, and other)                                           | 10          |

Dilute sample to 1,000 times of original before use. If spot number is more than 100, dilute the original by pure water and experiment on it once again. The diluting water must be sterilized (boiled).

The spot number is 48. (between 10 and 100)  
 The general bacteria number =  $48 \times 10 = 480$   
 (Classified Table of Samples)

### Sample --- Bean curd soaked water in a package

| Dilution times | Spot number on test paper | Spot number on plate culture |
|----------------|---------------------------|------------------------------|
| 0(original)    | thin red, numerous        | numerous                     |
| 1,000 times    | thin red, numerous        | numerous                     |
| 10,000 times   | red, small spot 48        | small spot=500               |

## Estimation of Coli form Group

After incubation, the coli form group appears as red spots. Generally, 5 sheets of test paper per sample should be used, the estimation is performed by mean value of spot number. When the test papers are dried at 60°C to 70°C after the test, they can be conserved.

## Specification

| Item         | Test Paper for General Bacteria | Test Paper for Coli Form Group |
|--------------|---------------------------------|--------------------------------|
| code         | 080510-302                      | 080510-301                     |
| component    | 100 sheets                      | 100 sheets                     |
| culture time | 24 hours                        | 15 hours                       |



Specifications, and appearance described in this document are based on information as of March 25, 2015. They are subject to change without notice for improvement of the product.

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