# Compact Dry "Nissui" TC For Total Viable Count





- ► Most colonies grown on the TC are red.
- **▶** Count all colonies grown on the TC.
- ► Incubate for 48 hours at 35°C.

Main Component: Non-selective medium and redox indicator of TTC

(2,3,5-Triphenyl Tetrazolium Chloride)

Certificates : AOAC (PTM), MicroVal

Storage : Keep at room temperature (1°C-30°C)

Shelf life : 18 months after manufacturing

Package : Compact Dry "Nissui" TC 40 plates (Code: 06740)

: Compact Dry "Nissui" TC 240 plates (Code: 06741)

- Compact Dry is manufactured based on Nissui's original patented technology. -

### **Compact Dry Preparation**

### Sample **Preparation**





Open an aluminum pouch.



Take out a set of 4 plates.

( Or take 1 - 3 plates you need and keep the pouch sealed to avoid a quality loss from light and moisture. )



Write appropriate information on a memorandum section.

**Dilution Water Preparation** (Butterfield's phosphate-buffered diluent) 34 g of  $KH_{_{2}}PO_{_{4}}$  and 500 ml of distilled

water. Adjust pH to 7.2 with 1 N NaOH. Autoclave 15 min at 121°C.

#### **1:10 Dilution Preparation**



Analyze 50 g from each sub-sample.



Add 450 ml of Butterfield's phosphatebuffered diluent.



Homogenize in a stomacher for 2 min.

→1:10 Dilution

**Further Dilutions (if necessary)** (1:100 Dilution Preparation)



Take 1 ml of the 1:10 dilution.



Add it to 9 ml of Butterfield's phosphatebuffered diluent.



Mix well.

→1:100 Dilution

(Not more than 15 min should elapse.)



#### **Inoculation**



Pipette 1 ml of a sample.



Take off a lid of a plate.



Inoculate the 1 ml sample to the middle of a dry sheet.



Put the lid again.

#### **Incubation**



Turn over the plate lidded, put them in an incubator. Incubate 48 hours at 35°C for Compact Dry TC.

## Interpretation & Colony Fishing



From the backside of the plate, count the number of colored colonies appeared in the medium. Lighting and using a loupe are useful to count colonies easier.

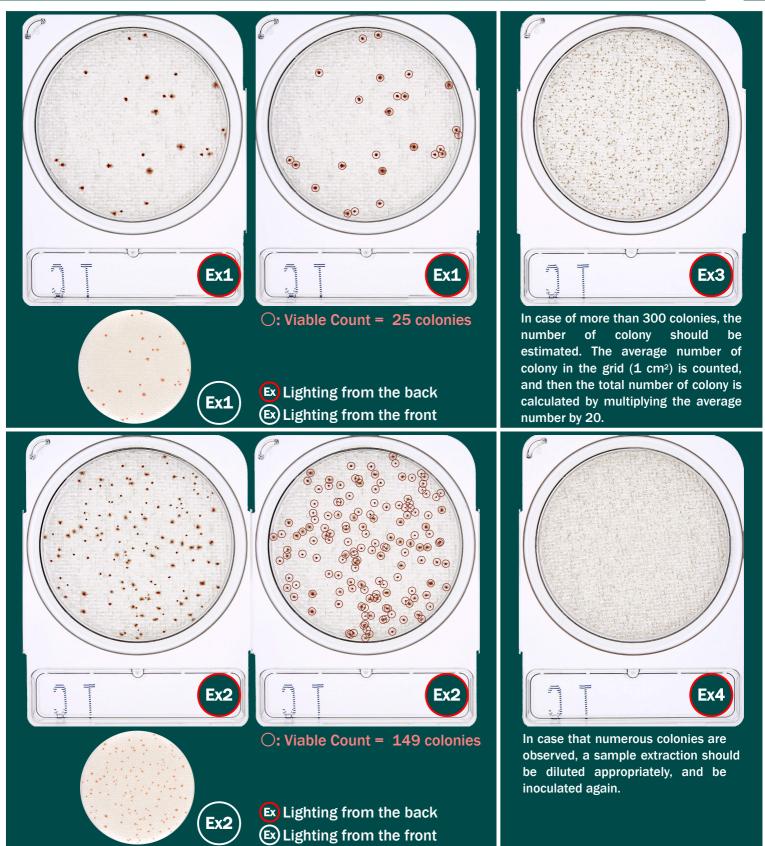
#### **Preliminary Advice**

For user's convenience, "Sample Preparation" section on the page 2 of this user's manual is made with reference to FDA's BAM (Bacteriological Analytical Manual). Depending on user's needs, other official methods can be also used.

#### **Counting Examples & Precautions**

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(Print this page without margins using A4 (  $210 \times 297 \text{ mm}$  ) paper, the pictures are printed out as the same as the actual Compact Dry (  $77 \times 58 \times 7$  ) mm ).



• After opening the aluminum bag, unused plates should be kept in the folded and sealed bag to avoid light and moisture. • Used plates must be sterilized by autoclaving and disposed according to a local waste management law. • In case of foodstuffs containing their own enzymes, there are cases where a whole medium of Compact Dry is stained. • The pictures in this manual has colonies of *E.coli*. There may be subtle differences if other strains grow. • Because of the lighting, there may be subtle differences in vision between in the pictures and in actual tests.

