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_2PO_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. \rightarrow 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. \rightarrow 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.

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Counting Examples & Precautions

(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 ($77 \times 58 (\times 7) \text{ mm}$).





• 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.

Further Information : Customer Support Section TEL: +81-3-5846-5711 E-mail: customer@nissui-pharm.co.jp

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