Staphylococcus aureus generates Light Blue/Blue colonies. Some bacteria other than Staphylococcus aureus may grow and generate white colonies.

► Incubate for 24 ± 2 hours at 35 ± 2 °C.

Certificates : (AOAC PTM; MicroVal; Under application)
Storage : Keep at room temperature (1°C-30°C)
Shelf life : 12 months after manufacturing
Package : Compact Dry “Nissui” X-SA 40 plates (Code: 06729)
               : Compact Dry “Nissui” X-SA 240 plates (Code: 06730)
- Compact Dry is manufactured based on Nissui’s original patented technology.

NISSUI PHARMACEUTICAL CO., LTD.
Open an aluminium 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 \( \text{KH}_2\text{PO}_4 \) 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

Analyse 50 g from each sub-sample.

Add 450 ml of Butterfield’s phosphate-buffered diluent.

Homogenise 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 phosphate-buffered 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 for 24 ± 2 hours at 35 ± 2°C. for Compact Dry X-SA.

Interpretation & Colony Fishing

- From the backside of the plate, count the number of Light Blue/Blue 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

In case of more than 300 colonies, the number of colony should be estimated. The average number of colony in the grid (1 cm$^2$) is counted, and then the total number of colony is calculated by multiplying the average number by 20.

In case that numerous colonies are observed, a sample extraction should be diluted appropriately, and be inoculated again.

- After opening the aluminium bag, unused plates should be kept in the folded and sealed bag to avoid light and moisture.
- Used plates must be sterilised 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.
- Rarely some bacteria other than Staphylococcus aureus may grow and generate red purple colonies.
- The pictures in this manual has colonies of S.aureus and S.epidermidis. 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.

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