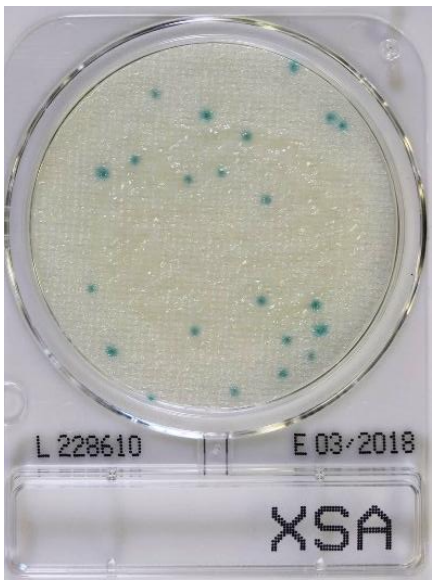
CompactDry™ X-SA Interpretation Guide



CompactDry X-SA
SA : *Staphylococcus aureus*
Certification : AOAC-PTM, MicroVal, NordVal, Afnor

[Features]
Staphylococcus aureus forms light blue to blue colonies due to the chromogenic enzyme substrate.

[Interpretation]
37 ± 1°C, 24 ± 2 hours

Pure Culture Inoculation





S. aureus forms light blue to blue colonies, while other Staphylococcus spp. (e.g., *S. epidermidis*) are inhibited or, if they grow, form small white colonies. If incubation exceeds 24 hours, the white colonies of *S. epidermidis* may develop color. Therefore, the incubation time should be strictly observed. Some *Bacillus* spp. (especially *B. cereus* and *B. thuringiensis*) may form spreading, pale blue colonies with a ground-glass appearance.



←
A mixed suspension of *Staphylococcus aureus* and *Bacillus* spp. was inoculated and incubated.
S. aureus forms relatively distinct blue colonies approximately 1 to 2 mm in diameter. Pale blue, spreading colonies are not Staphylococcus aureus and should be excluded from the count.



Light Viewer
When counting colonies grown on CompactDry, illuminating the plate from the back using a white board (Light Viewer) makes the colonies easier to see.

Shimadzu Diagnostics Corporation
Customer Support Section
Tel: +81-3-5846-5707
E-mail: contact@sdc.shimadzu.co.jp

Copyright © Shimadzu Diagnostics Corporation. All rights reserved.

CompactDry™ X-SA Interpretation Guide

CompactDry™ International Certifications Approved

Culture Examples of Various Food Samples

A 1:10 dilution of each food sample was inoculated with *S. aureus* and incubated on CompactDry™ X-SA at 37°C for 24 hours.





←
In the chicken wing sample, reddish-purple colonies were observed in addition to the blue colonies of S. aureus. These colonies are presumed to be microorganisms such as Bacillus spp. that grew on the medium.





→
In the chicken liver sample, green coloration is observed over the entire medium sheet due to enzymes present in the animal organ. This can be avoided by performing an additional 1:10 dilution with sterile saline or a similar diluent.





←
In the cheese sample, slightly brownish, spreading colonies were observed in addition to the blue colonies. These colonies are presumed to be *Bacillus* spp.

Shimadzu Diagnostics Corporation
Customer Support Section
Tel: +81-3-5846-5707
E-mail: contact@sdc.shimadzu.co.jp

Copyright © Shimadzu Diagnostics Corporation. All rights reserved.