



Reference: 064-PLA-CO

Scharlau Microbiology - Technical Data

Product: **COAGULASE TEST**

## Specification

Confirmative Test for coagulase-positive Staphylococcus formulated according to ISO 6888-1.

## Presentation

	Packaging Details	Shelf Life	Storage
1 Tube Liophilized Tube 23 x 50 mm glass plastic screw cap with: 9 ± 0.2 ml	23x60 mm glass vial, Plastic screw cap - 1 vial per metallic bag + 1 vial with 10 ml sterile rehydration water.	24 months	2-8 °C

## Composition

Rabbit Plasma - EDTA..... 10 ml

Rehydrate with 10 ml of sterile water  
previously heated up to 37°C

## Description /Technique

Rehydrate with 10 ml of sterile water previously heated at 37°C. Dispense into tubes, 0.3 ml each.

After that, inoculate with 0.1 ml of a previous pure culture on BHI broth (formulated according to ISO), or directly with a loop from an isolated colony.

Incubate at 37°C and analyze the coagulation after 30 minutes, 1, 4 and 6 hours (up to 24 hours). Presence of *S.aureus* (and other Staphylococci coagulase positive) is evident because of a solidification of the medium (coagulase transforms protrombine into staphylotrombine, which combines with the fibrinogen in the medium, and they form fibrin).

Presence of trypsin in the plasma may invert positive reactions when readings are done late.

The rehydrated plasma will remain stable for 30 days if stored at 4°C

## Quality control

### Physical/Chemical control

Color : Pink

### Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Prepare a suspension from pure culture.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Incubation at 37°C. reading between 12 and 18 h.

Microbiological control according to ISO 11133:2014/A1:2018; A2:2020.

### **Microorganism**

*Staphylococcus aureus* ATCC® 6538, WDCM 00032

*Stph. epidermidis* ATCC® 12228, WDCM 00036

*Stph. saprophyticus* ATCC® 15305, WDCM 00159

### **Growth**

Positive

Negative

Negative

### Sterility control

Add 5 ml of the sample to:

100 ml TSB and 100 ml Thioqlycollate.

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.



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## Bibliography

- . VANDERZANT, C. and D.F. SPLITTSTOESSER (1992) Compendium of Methods for the Microbiological Examination of Foods. 3rd. Ed. APHA. Washington.
- . ISO 6888-1:1999 Microbiology of food and animal feeding stuffs. Horizontal method for the enumeration of coagulase-positive staphylococci.
- . ISO 11133:2014/ Adm 1:2018/ Adm 2:2020/ Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.