

Scharlau Microbiology - Technical Data

Product: COAGULASE TEST

Specification

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

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

Growth Positive

Negative

Negative

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.

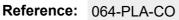
Microbiological control according to ISO 11133:2014/A1:2018; A2:2020.

Microorganism

Staphylococcus aureus ATCC[®] 6538, WDCM 00032 Stph. epidermidis ATCC[®] 12228, WDCM 00036 Stph. saprohyticus ATCC[®] 15305, WDCM 00159

Sterility control

Add 5 ml of the sample to: 100 ml TSB and 100 ml Thioglycollate. 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 fo coagulasa-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.