

Specification

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

Presentation

	Packaging Details	Shelf Life	Storage
10 Vials q.s. 3 ml Tube 22x65 mm with: 3 ± 0.1 ml	23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	36 months	2-8 °C

Composition

Rabbit Plasma - EDTA..... 3 ml

Reconstitute with 3 ml of sterile water
previously warmed up to 37°C

Description /Technique

Rehydrate with 3 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 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 1/2, 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 pH: at 25°C

Microbiological control

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

Inoculate with loop/swab with pure isolates to get a thick suspension

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

Stph. epidermidis ATCC® 12228, WDCM 00036

Staphylococcus aureus ATCC® 6538, WDCM 00032

Stph. saprophyticus ATCC® 15305, WDCM 00159

Growth

Negative

Positive

Negative

Sterility Control

100 ml TSB and 100 ml Thioglycollate.

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

Check at 7 days after incubation in same conditions.

Reference: 673333ZL Technical Data Sheet

Product: **COAGULASE TEST**



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.