



Reference: 06-011-100

Scharlau Microbiology - Technical Data

Product: Potassium Tellurite Solution 3.5%

Specification

Aqueous solution of potassium tellurite at 3,5%, sterilized by filtration and suitable for use as an inhibitor additive in culture media.

Presentation

1 Prepared bottle
Bottles 125 ml
with: 100 ± 3 ml

Packaging Details

1 box with 1 bottle (amber) 125 ml. Injectable cap:
Plastic screw inner cap. The use of syringes needles
with a diameter greater than 0.8 mm is not
recommended.

Shelf Life

24 months

Storage

15-25 °C

Composition

Potassium tellurite..... 35.0
Distilled water..... 1000 ml

Reagent to be added, as inhibitor, into
culture media for staphylococci isolation.

Description /Technique

Potassium Tellurite Solution is added to culture media as an inhibitor. Its purpose is to prevent the growth of most Gram negative bacteria and of those Gram positive bacteria unable to reduce it.

It is used in media such as Giolitti-Cantoni Broth, Vogel-Johnson Agar, Baird Parker and other selective media for staphylococci. This solution is also contained in selective media for corynebacteria, streptococci and vibrios.

There is a high correlation between the ability to reduce potassium tellurite to tellurium and the pathogenicity of staphylococci, therefore, the presence of potassium tellurite in a medium, together with other tests, helps to determine staphylococci of clinical interest. Potassium Tellurite Solution should be stored at room temperature, since low temperatures will cause crystallization and later precipitation of the product. Should this occur, intense agitation will help redissolve the sediment. Due to its thermolability, the potassium tellurite It is recommended not to subject it to temperatures above 40°C.

Note: This product is transparent but precipitates may appear without affecting performance of the medium

Quality control

Physical/Chemical control

Color : Colourless

Microbiological control

Add supplement to functionality - into Giolitti Cantoni Broth base

Inoculate: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10⁴-10⁶ (selectivity).

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

Aerobiosis. Incubation at 37 °C ± 1, reading after 24-48 ± 2h

Microorganism

Stph. aureus ATCC® 25923, WDCM 00034

Staphylococcus aureus ATCC® 6538, WDCM 00032

Escherichia coli ATCC® 8739, WDCM 00012

Growth

Good - Black precipitate

Good - Black precipitate

Inhibited

Sterility control

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.

Inoculate 10 ml of product in 100 ml THIO USP / TSB. Incubate and verify in TSA.



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