

PRODUCT CODE: 414724

Potassium Tellurite solution 3.5% (Supplement) for microbiology

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	Packaging Details	Shelf life	Storage
Bottles 125 ml with: 100 ± 0,3 ml.	1 box with 1 bottle 125 ml. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.	24 months	15-25°C

Description and Technique

Description and 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	Microbiological control	Sterility control
Color: Colourless.	<p>Add supplement to functionality - into Giolitti Cantoni Broth base</p> <p>Inoculate: Practical range 100 ± 20 CFU; Min. 50 CFU (Productivity)/ 10⁴ -10⁶ (Selectivity).</p> <p>Aerobiosis. Incubation at 37 °C±1, reading after 24-48±2h.</p>	<p>Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH</p> <p>Check at 7 days after incubation in same conditions</p> <p>Inoculate 10 ml of product in 100 ml THIO USP / TSB. Incubate and verify in TSA</p>

Microorganism	Growth
<i>Stph. aureus</i> ATCC® 25923, WDCM 00034	Good - Black precipitate Good (≥70 %)
<i>Staphylococcus aureus</i> ATCC® 6538, WDCM 00032	Good - Black precipitate Good (≥70 %)
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Inhibited

Microbiological control methods based on the ISO11133:2014/ Adm 1:2018.

JM200103