



Reference: 6087

Technical Data Sheet

Product: CRYOPRESERVE BEADS RED

Specification

Maintenance Freeze Medium for bacterial cultures storage

Presentation

50 Cryotubes
CryoTubes
with: 1 ± 0.1 ml

Packaging Details

50 cryovials per box

Shelf Life

48 months

Storage

8-25 °C

Composition

Composition(g/l):

Tryptone.....	10.0
Sodium chloride.....	5.0
Meat extract.....	3.0
Yeast extract.....	5.0
L-Cysteine.....	0.94
Glycerol.....	150 ml

Description /Technique

Under aseptic conditions, prepare a thick suspension (to more than a 2 McFarland standard) of pure bacteria from young cultures (20-24 hours) in the vial.

Mix the vial to soak the beads with bacterial cells and remove cryo-solution aspirating it with a sterile pipette. When used as recommended, each vial will store 25±5 beads identical potential culture.

Close tightly the cryotube; record and identify vials with permanent marker or with cold-resistant labels. Colours of caps and beads provides a system to be used to differentiate species.

Store the inoculated vials at -25 °C, -30 °C, -35 °C or up to -80 °C for best long term results.

To recover the organism, open a vial under aseptic conditions and, using a sterile needle or a sterile forceps, remove one bead. The inoculated bead may then be used to directly streak onto solid medium or to be dropped into an appropriate liquid medium.

The vial must be closed again as soon as possible an return immediately to low temperature storage. Excessive changes in temperature reduce the viability of the microorganisms.

Developed for the safe preservation-freezing of bacteria, yeasts and fungi. Tested with collection strains. Each laboratory must evaluate the suitability of the product for the conservation of its own strains.

It can be successfully preserved various species of *Actinobacillus*, *Clostridium*, *Haemophilus*, *Neisseria*, *Pasteurella*, *Yersinia*, *Vibrio*, and a good number of *Enterobacteriaceae*, *Staphylococcus*, *Lactobacillus*, and *Streptococcus*.

Also used in moulds (*Aspergillus* as example) and yeast (*Saccharomyces*, *Candida*, and others) with good performance, working from -30°C, 4 years frozen.

In reference literature they point up to 10 years, working at lower temperatures, as -60 to -80 °C.

Please note that some fastidious microorganisms and specific fungus may be negatively affected by the freezing temperature. So, we recommend to proceed with specific tests for special strains.

Quality control

Physical/Chemical control

Color : Pale yellow

pH: 7.3 ± 0.2 at 25°C

Microbiological control

Prepare a suspension from pure culture.

Pipette excess of liquid after vortexing to coat beads with microorganisms - 30"

Freeze at -30 °C aprox. for 2 days.

Thaw - swab streaking - Incubate for 24-48 h.

Microorganism

Escherichia coli ATCC® 25922, WDCM 00013

Streptococcus pneumoniae ATCC® 49619

Growth

Good

Good

Sterility Control

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

Check at 7 days after incubation in same conditions.

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Bibliography

Murray, PR et al. 1995 Manual of Clinical Microbiology. 6th. Ed. American Society for Microbiology. Washington DC

Chandler, D. Cryopreservation of fungal spores using porous beads, Mycol. Res. 98(5) 525-526 (1994)

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