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Codes: 409113/1, 409113/2, 409113/3, 409113/4, 409113/5, 409113/6
CRYOINSTANT: Porous beads for microbiological culture preservation

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Code	Cap and pearls color	Case quantity	Case weight (kg)	Case volume (m ³)
409113/1	White	100	0,53	0,002
409113/2	Blue	100	0,53	0,002
409113/3	Yellow	100	0,53	0,002
409113/4	Red	100	0,53	0,002
409113/5	Green	100	0,53	0,002
409113/6	Assortment: 5 colors x 20 cryovials	100	0,53	0,002



Elaborated	Verified	Authorised
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SPECIFIC USE

Used in microbiological laboratories, in order to store strains obtained through microbiological cultures; and further recuperation of the strain for in Vitro Diagnostics (for example, antibiotic sensitivity), and general microbiological studies.

DESCRIPTION

Preservation system for storing microbiological culture, consisting of **2 ml sterile cryovials** containing 25 porous beads and cryopreservative-added broth. It allows to:

- Get a **perfect long term freezing storage system**,
- Obtain up to **25 replicates** from the original microorganism,
- **Ease** the **recovery** of the **stored strain** streaking an inoculated bead directly onto solid media,
- **Prevent changes** and **repetitive thawing / freezing** of the rest of beads
- **Avoid** the **growth** of **ice** when recovering,
- **Improve recovery rates** of frozen cultures by adding cryopreservative to broth
- **Minimize** the **risk of cross contamination**,
- **Save space** in the freezers when storing.

COMPONENTS


Cryovial: external thread cryovials are made of polypropylene, Their caps embody a silicone washer to ensure a positive leakproof seal. Tubes and caps withstand up to -190°C.

In order to ease the classification of the samples, we offer the possibility to get cryovials with caps and beads in five different colors: every code displays caps and beads from a single and same color (excepting code 409113/6, which is an assortment), providing a system whereby users are able to identify and code different bacterial species, different samples, different laboratories,... And even more: with color coded inserts a further classification can be made.

Carton boxes: Cryovials are presented in carton boxes (resistant to -100°C; dimensions: 150x150x55 mm) with 100 units.

Each box is supplied plastic-wrapped and labeled with code reference, batch, expiration date and specifying the color of the caps and beads.

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Broth with beads:

Palid yellow color,
pH 7.1 ± 0.2

Composition:

Formulation in g/l of purified water

Tryptone.....	10.0
Sodium chloride.....	5.0
Meat extract.....	3.0
Leaven extract.....	5.0
L-Cisteine.....	0.94
Glycerol.....	150 ml



BIBLIOGRAFY

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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INSTRUCTIONS OF USE:

1. Take the sample from the strain with a loop
2. Inoculate the cryovial by putting the loop in contact with the broth,
3. Close the cryovial and shake it gently in order to permeate the strain into the beads,
4. Extract the cryopreservative-added broth with a Pasteur pipette
5. Close the cryovial and take it to the freezer (To -25°C, -30°, -35°C or to -70°C to obtain better results at a large term);
6. Every time we need to reproduce the strain, we will take a bead with a loop or a forceps,
7. And we will put it in a liquid medium, or in a plate with solid culture medium, attempting to put in contact all the surface of the bead with the medium.

Every time a cryovial is taken out of the freezer to recover a bead, the cryovial should be stored again within the least time in order to avoid that the strains loose viability. This is specially recommended with labile microorganisms like Pneumococcus, Campylobacter, Gonococcus, ...

PRESERVATION:

Low exigent microorganisms (like enterobacteriaceae, staphylococcus or enterococcus) may be safely stored for three years, although it is recommended to establish annual supervision of its conservation degree, and also annual renewal of the cryovials.

Expiry date before use: 48 months from manufacturing date

Storage: 8-25°C



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