

**CRYOBEADS***For microbiological control only*

Preservation of microbial strains

**SUMMARY AND EXPLANATION**

This system allows the preservation of microbial strains using a cheaper, simple and reliable method for all type of microbial strains preservation (reference strains, internal collection strains...).

**PRINCIPLE**

The Cryobeads system is a little tube containing beads on which micro-organisms can adhere. The beads are immersed in a hyper tonic cryo-preserved solution. Once inoculated, the tubes are stored between –20°C and –80°C. Each box contains 64 tubes of 25 beads, densely packed for storage in a freezer.

**CONTENT OF THE KIT****Ready-to-use medium**

REF AEB400100 64 tubes with 25 beads

**COMPOSITION****Theoretical formula per tube**

This medium can be adjusted and/or supplemented according to the performance criteria required:

Hyper tonic cryo-preserved solution.....0.9 ml  
Beads.....25

**WARNINGS AND PRECAUTIONS**

- **For microbiological control only.**
- **For professional use only.**
- This kit contains products of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not totally guarantee the absence of transmissible pathogenic agents. It is therefore recommended that these products be treated as potentially infectious, and handled observing the usual safety precautions (do not ingest or inhale).
- All specimens, microbial cultures and inoculated products should be considered infectious and handled appropriately. Aseptic technique and usual precautions for handling the bacterial group studied should be observed throughout this procedure. Refer to "CLSI® M29-A, *Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Current Revision*". For additional information on handling precautions, refer to "Biosafety in Microbiological and Biomedical Laboratories – CDC/NIH – Latest edition", or the current regulations in the country of use.
- Culture media should not be used as manufacturing material or components.
- Do not use reagents past the expiration date.
- Do not use tubes which show signs of contamination.
- The medium should be used according to the procedure indicated in this package insert. Any change or modification in the procedure may affect the results.

**STORAGE CONDITIONS**

- **Store the tubes before inoculation at 2-25°C in their box until the expiry date.**

**SPECIMENS**

Follow the recommendations in the current standards to perform specimen collection and preparation.

**INSTRUCTION FOR USE****Strains preservation**

- 1 – Use a permanent marker to identify the tube to be inoculated.
- 2 – Inoculate under aseptic conditions the tube with a fresh and pure culture that corresponds to a density of 3 or 4 on Mc Farland scale.
- 3 – Close the tube and turn it upside down to spread germs evenly.
- 4 – With a sterile pipette, remove the maximum of solution from the tube. Then place the cap back on.
- 5 – Store the cryobeads tubes in a freezer. The ideal temperature is –80°C. Temperature should be at least –20°C.

**Preserved strains culture.**

- 1 - Take the tube out of the freezer. **Do not let defreeze the tube.** Take only one tube at a time. In this way tubes that are not used immediately will not get warm.
- 2 – Open the tube and remove one bead, using sterile tweezers.
- 3 – Place the bead into a tube containing a broth with an appropriate medium for the species (non selective medium is recommended). You may also roll the bead on the surface of an agar plate.
- 4 – Incubate according to the species requirements.
- 5 – Place the tube back into the freezer as soon as possible so that the other beads do not warm up. Destroy the bead that you used in an appropriate way.

**QUALITY CONTROL**

The Cryobeads have been designed and developed to meet the strictest quality requirements.

The results obtained using strains tested during controls for bacteriological activity are shown on the quality control certificate for each batch, available from our website ([www.biomerieux.com](http://www.biomerieux.com)).

**LIMITS OF TEST**

- Protect the tubes from any type of heat or bright light, even during inoculation.
- Make sure that the cryo-preserved solution is clear.
- Do not use if it is cloudy.

## WASTE DISPOSAL

Unused reagents may be considered as non-hazardous waste and disposed of accordingly.








Dispose of all used reagents as well as any other contaminated disposable materials following procedures for infectious or potentially infectious products.

It is the responsibility of each laboratory to handle waste and effluents produced according to their nature and degree of hazardousness and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.

## LITERATURE REFERENCES

1. White D.J., Sands R.L. 1985. Storage of bacteria at -76°C. Medical Laboratory Sciences. **42**:289-290.
2. Feltham R.K.A., Power A.K., Pell P.A., Sneath P.H.A. 1978. A simple method for storage of bacteria at -76°C. Journal of Apply Bacteriology. **44**:313-316.

## INDEX OF SYMBOLS

Symbol	Meaning
	Catalog number
	Manufacturer
	Temperature limitations
	Use by date
	Batch code
	Consult Instructions for Use
	Contains sufficient for <n> tests

## WARRANTY

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