

MATERIAL SAFETY DATA SHEET MICROBIOLOGICAL REFERENCE MATERIALS

1. Product and Company identification

Product Microbiological reference materials
Biohazard group 2

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2. Composition/information on ingredients

Plastic vials containing frozen milk or bouillon contaminated with micro-organism of Hazard Group 2. Moderate individual risk, low community risk. A pathogen that can cause human or animal disease but is unlikely to be a serious hazard to laboratory workers, the community, livestock or the environment. Laboratory exposures may cause serious infection, but effective treatment and preventative measures are available and the risk of spread of infection is limited.

As defined by <http://www.absa.org/riskgroups/>.

3. Hazard identification

This material is classified as an biological substance Category B (UN3373).

4. First aid measures

Avoid skin and eye contact with the (C)RM. In the event of skin contact, immediately wash the exposed area with plenty of water and, where possible disinfect the skin with a disinfectant. In the event of eye contact, thoroughly wash the eyes with water or eye rinse fluid.

5. Fire fighting measures

All extinguishing agents can be used. Wear protective clothing to avoid eye and skin contact.

6. Accidental release measures

Laboratory personnel are considered sufficiently trained to work with these materials. Accidental spillages of the product can be removed using disinfectant. The materials used must be sterilised.

Accidental spillages of the product during transportation, contacting the (injured) skin and eyes should be avoided and if necessary wash the skin and/or eyes with plenty water. Spilled fluid can be removed with plenty of water and/or a disinfectant.

7. Handling and storage

The product must be stored in a freezer. Samples should be defrosted before use at room temperature. The product can then be stored for 6 hours at 4°C. When using the product, one must follow the laboratory regulations relating to handling pathogenic micro-organism. Any waste is infectious material and must be disposed of in the container.

8. Exposure controls/personal protection

Wear laboratory clothes and work hygienically. In the defrosted state, the tubes contain approx. 10.000 cfu/ml. Follow the regulations that apply in the laboratory for working with pathogenic micro-organism. For spillages, use an adequate agent. For spillages on the skin, wash thoroughly with plenty of water. All materials used must be sterilised after use.

9. Physical and chemical properties

Molecular weight	n/a
Melting point	0°C
Boiling point	100°C
Solubility in water	Good
Appearance and smell	Milk: White fluid, frozen, milky smell Bouillon: colourless fluid, no smell

10. Stability and reactivity

The product is a stable non-reactive product when stored in a freezer. After defrosting, the resultant fluid remains stable for 6 hours when stored in a fridge at a temperature of 4°C. Everything that is exposed to the product must be sterilised where possible or otherwise disinfected.

11. Toxicological information

This material is only toxic in large quantities or if open wounds are exposed to it. More information on the bacteria in risk group 2 can be found on the following websites: www.nih.gov en www.ncbi.nlm.nih.gov

12. Ecological information

These bacteria are found generally and therefore present no danger to the environment.

13. Disposal considerations

For disposal, the product and all the material that has been exposed to it must be sterilised in a autoclave for a minimum of 10 minutes at 121°C. If sterilisation is not possible, the contaminated item must be disinfected using an adequate product. Any waste is infectious material and must be disposed of in accordance with the regulation.

14. Transport information

Dry ice	UN1845, dry ice Risk label 9
Product	UN3373, biological substance, Category B Class 6.2
Package	Tube are packed in a leak and airtight bag Absorption material Thermo-resistant box Dry ice Cardboard surrounding box

If the content is no longer frozen after receipt and opening, sterilise the contents fully. This includes the packaging foil and plastic bag.

15. Regulatory information

n/a

16. Other information

This material safety data sheet was drawn up based on information, opinions and recommendations that we consider reliable. However, we do not accept any responsibility for the accuracy a reliability of this information. Likewise, we do not accept any responsibility for accidents that may occur as a result of using this material.
