

Microbial culture information sheet

- Organism
- | | |
|---|--|
| <input type="checkbox"/> <i>Bacillus subtilis</i> | <input type="checkbox"/> <i>Cellulomonas</i> sp. |
| <input type="checkbox"/> <i>Janthinobacterium lividum</i> | <input type="checkbox"/> <i>Kluyveromyces lactis</i> |
| <input type="checkbox"/> <i>Leuconostoc mesenteroides</i> | <input type="checkbox"/> <i>Micrococcus luteus</i> |
| <input type="checkbox"/> <i>Micrococcus roseus</i> | <input type="checkbox"/> <i>Neurospora crassa</i> |
| <input type="checkbox"/> <i>Pichia anomala</i> | <input type="checkbox"/> <i>Saccharomyces carlsbergensis</i> |
| <input type="checkbox"/> <i>Saccharomyces cerevisiae</i> STRAIN K5-5A | <input type="checkbox"/> <i>Saccharomyces diastaticus</i> |
| <input type="checkbox"/> <i>Shewanella putrefaciens</i> | <input type="checkbox"/> <i>Streptomyces griseus</i> |
| <input type="checkbox"/> <i>Vibrio natrigens</i> | <input type="checkbox"/> <i>Pectobacterium carotovorum</i> |
- Escherichia coli* STRAINS: DH5 α 18; DH10B; TG2 (*lac*⁻); J-53R (*lac*⁺); HT-99; B

Health hazard The accompanying organism belongs to **Hazard Group 1**, as designated by the UK Advisory Committee on Dangerous Pathogens (ACDP), that is, a ‘...biological agent unlikely to cause human disease’. In the UK, microorganisms are covered by the Control of Substances Hazardous to Health (COSHH) regulations (1988), the Health and Safety at Work Act s.6(4)(c) and are subject to the Approved Code of Practice for Biological Agents, 1994.

Storage On arrival, store the slope in a cool, dark cupboard in a secure location. Avoid direct sunlight and temperatures above 15°C. **With the exception of *Neurospora crassa*, cultures should NOT be kept in a fridge.** Subculture from the slope at least once using an appropriate growth medium, before inoculating a class set. It may be necessary to subculture two or three times to obtain actively-dividing cells.

Handling Good microbiological laboratory practice should be followed when using the culture. The culture should be used only by those competent in microbiological techniques and in a laboratory suitable for **Hazard Group 1** organisms, that is, ACDP Containment Level 1. See: *Topics in Safety* (Association for Science Education, 2001).

Disposal After use, autoclave all cultures that are no longer required.

Spillage or damage If the culture is accidentally spilt or the container is broken, cover the contaminated area with a suitable disinfectant. Use a spillage kit to collect the disinfected debris.

First aid In the event of skin contamination, wash with antibacterial soap and warm water. Seek medical advice if the skin is broken or ingestion or inhalation of the culture has occurred.

Reference For detailed safety guidance, please refer to *Topic 15, Microbiology and Biotechnology*, in: *Topics in Safety* (2001) Third edition. Association for Science Education. ISBN: 0863573169.

Further advice

NCBE University of Reading, 2 Earley Gate, Whiteknights Road, Reading, RG6 6BZ.
Microbiology Society 14–16 Meredith Street, London, EC1R 0AB
CLEAPSS Units 5 and 6, Chiltern Court, Asheridge Road, Chesham, HP5 2PX
SSERC 2 Pitreavie Court, South Pitreavie Business Park, Dunfermline, Fife, KY11 8UU.