



**Non WHO Reference Material**  
**IFU for UKSCB Mouse Embryonic Fibroblasts**  
**NIBSC code: MEF-001**  
**Instructions for use**  
**(Version 3.0, Dated 28/02/2019)**

**This material is not for in vitro diagnostic use.**

**1. INTENDED USE**

Mouse embryonic fibroblast cells for use as feeders for the culture of human pluripotent stem cell lines.

**2. CAUTION**

**This preparation is not for administration to humans or animals in the human food chain.**

Murine cells frozen in medium containing Foetal Bovine Serum. The material is of bovine origin. The material is certified to be obtained from animals taken from a closed herd in the female line since 1980, in which no animal has been clinically suspected of having BSE & which has not been fed rations containing ruminant derived protein during that period.

**3. UNITAGE**

2ml plastic cryovials - at least  $1 \times 10^6$  cells per vial

**4. CONTENTS**

Country of origin of biological material: United Kingdom.  
Mouse embryonic fibroblast cells provided as cryopreserved cultures in 2ml plastic cryovials. Each vial contains murine cells cryopreserved in media containing foetal bovine serum and cryoprotectant (DMSO).

**5. STORAGE**

Liquid nitrogen vapour phase storage - vials shipped on dry ice.

**6. DIRECTIONS FOR OPENING**

Vials have a screw cap; an internal stopper may also be present. The cap should be removed by turning anti-clockwise. Care should be taken to prevent loss of the contents. Please note: If a stopper is present on removal of the cap, the stopper should remain in the vial or be removed with the cap.

**7. USE OF MATERIAL**

For the preparation of feeder cells for use in pluripotent stem cell culture.

**8. STABILITY**

Cryopreserved cells produced by the UK Stem Cell Bank are held at NIBSC within assured, temperature-controlled storage facilities and should be stored on receipt as indicated on the label. Users who have data supporting any deterioration in the characteristics of any cell line are encouraged to contact the UKSCB.

**9. REFERENCES**

Thomson et al., Science 282 (5391): 1145-1147

**10. ACKNOWLEDGEMENTS**

The UK Stem Cell Bank is funded by the MRC & BBSRC

**11. FURTHER INFORMATION**

Further information can be obtained as follows;  
This material: enquiries@nibsc.org  
WHO Biological Standards:  
<http://www.who.int/biologicals/en/>  
JCTLM Higher order reference materials:

National Institute for Biological Standards and Control,  
Potters Bar, Hertfordshire, EN6 3QG. T +44 (0)1707 641000, [nibsc.org](http://nibsc.org)  
WHO International Laboratory for Biological Standards,  
UK Official Medicines Control Laboratory

<http://www.bipm.org/en/committees/jc/jctlm/>

Derivation of International Units:

[http://www.nibsc.org/standardisation/international\\_standards.aspx](http://www.nibsc.org/standardisation/international_standards.aspx)

Ordering standards from NIBSC:

<http://www.nibsc.org/products/ordering.aspx>

NIBSC Terms & Conditions:

[http://www.nibsc.org/terms\\_and\\_conditions.aspx](http://www.nibsc.org/terms_and_conditions.aspx)

**12. CUSTOMER FEEDBACK**

Customers are encouraged to provide feedback on the suitability or use of the material provided or other aspects of our service. Please send any comments to enquiries@nibsc.org

**13. CITATION**

In all publications, including data sheets, in which this material is referenced, it is important that the preparation's title, its status, the NIBSC code number, and the name and address of NIBSC are cited and cited correctly.

**14. MATERIAL SAFETY SHEET**

Classification in accordance with Directive 2000/54/EC, Regulation (EC) No 1272/2008: Not applicable or not classified

Physical and Chemical properties	
Physical appearance: Frozen liquid (pink or yellow)	Corrosive: No
Stable: Yes	Oxidising: No
Hygroscopic: No	Irritant: No
Flammable: No	Handling: See caution, Section 2
Other (specify):	Contains material of murine & bovine origin
Toxicological properties	
Effects of inhalation:	Not established, avoid inhalation
Effects of ingestion:	Not established, avoid ingestion
Effects of skin absorption:	Not established, avoid contact with skin
Suggested First Aid	
Inhalation:	Seek medical advice
Ingestion:	Seek medical advice
Contact with eyes:	Wash with copious amounts of water. Seek medical advice
Contact with skin:	Wash thoroughly with water.
Action on Spillage and Method of Disposal	
Spillage of cryovial contents should be taken up with absorbent material wetted with an appropriate disinfectant. Rinse area with an appropriate disinfectant followed by water. Absorbent materials used to treat spillage should be treated as biological waste.	

**15. LIABILITY AND LOSS**

In the event that this document is translated into another language, the English language version shall prevail in the event of any inconsistencies between the documents.

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**16. INFORMATION FOR CUSTOMS USE ONLY**

<b>Country of origin for customs purposes*:</b> United Kingdom * Defined as the country where the goods have been produced and/or sufficiently processed to be classed as originating from the country of supply, for example a change of state such as freeze-drying.
<b>Net weight:</b> 1g
<b>Toxicity Statement:</b> Toxicity not assessed
<b>Veterinary certificate or other statement</b> if applicable. <b>Attached:</b> No