

**NCTC 1469 | 400300**

**General information**

|             |                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------|
| Description | Mouse embryo fibroblast (MEF) cells, derived from a 14-day mouse embryo, used for the production of recombinant proteins. |
| Organism    | Mouse                                                                                                                     |
| Tissue      | Embryo                                                                                                                    |
| Synonyms    | NCTC 1469, NCTC-1469, NCTC1469                                                                                            |

**Strain information**

|                   |            |
|-------------------|------------|
| Breed/Subspecies  | C3H/An     |
| Age               | 8-12 weeks |
| Gender            | Male       |
| Growth properties | Adherent   |

**Identification and safety**

|                      |                           |
|----------------------|---------------------------|
| Citation             | NCTC 1469 (Cytion 400300) |
| Biosafety level      | 1                         |
| NCBI_TaxID           | 10090                     |
| CellosaurusAccession | CVCL_3066                 |

**Antigen expression and viruses**

|                      |                                   |
|----------------------|-----------------------------------|
| Antigen expression   | H-2k                              |
| Viruses              | Not applicable (non-viral cells). |
| Virus susceptibility | Not applicable (non-viral cells). |

Product sheet

NCTC 1469 | 400300

**Virus resistance** 1

**Reverse transcriptase**

**Culture Medium** RPMI 1640, w: 2.0 mM , w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a)

**Supplements** 10% FBS

**Dissociation Reagent**

**Subculturing** 1. Remove medium and wash cells with PBS. 2. Add 1 ml of trypsin to the well. 3. Incubate for 5 min at 37°C. 4. Add 1 ml of PBS to stop the reaction. 5. Pipette up the cells and centrifuge at 300 x g for 5 min. 6. Resuspend the cells in 1 ml of medium.

**Split ratio** 1:2 to 1:4

**Fluid renewal** 3 times per week

**Freeze medium** 10% FBS + 10% DMSO

NCTC 1469 | 400300

Thawing and  
Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of medium.
3. Seed the cells into a T25 flask containing 37 ml of medium.
4. Incubate the cells at 37°C in 5% CO<sub>2</sub> for 24 hours.
5. Check the cell density and passage the cells when they reach 70% confluency.
6. Seed the cells into a T75 flask containing 150 ml of medium.
7. Incubate the cells at 37°C in 5% CO<sub>2</sub> for 24 hours.
8. Check the cell density and passage the cells when they reach 70% confluency.

Incubation  
Atmosphere

37°C, 5% CO<sub>2</sub>, humidified

Flask Coating

Not required

Freezing  
Procedure

Cells are frozen in a freezing medium and stored at -80°C.

Shipping  
Conditions

Cells are shipped in a freezing medium and stored at -80°C.

Storage  
Conditions

Cells are stored in a freezing medium at -150 to -196 °C.

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for endotoxin contamination.

Product sheet

██████NCTC ██████████1469 | 400300

---

|             |                    |
|-------------|--------------------|
| ████████STR | M_18-3: 16         |
|             | M_4-2: 20,3, 21,3  |
|             | M_6-7: 12,13       |
|             | M_3-2: 14,15       |
|             | M_19-2: 11,12      |
|             | M_7-1: 26,27       |
|             | M_1-1: 10          |
|             | M_8-1: 14,16       |
|             | M_2-1: 9           |
|             | M_15-3: 25 ██████  |
|             | M_6-4: 18          |
|             | M_11-2: 16,18      |
|             | M_1-2: 16          |
|             | M_17-2: 15, 16, 17 |
|             | M_12-1: 16         |
|             | M_5-5: 15          |
|             | M_X-1: 26          |
|             | M_13-1: 17,18      |
|             | Human D4/D8: -     |