

KH2 Mouse Embryonic Stem Cells

For engineering tet-inducible knockout mice



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Catalog No.	MES4304
Lot No.	

Cell storage

-140°C indefinitely

Product Description

- Quantity: 1.0 ml (approximately 5×10^6 cells/cryovial) in one cryovial
- Cell passage number: 7
- Strain: C57BL/6 (f) x 129/SV (m)
- Hygromycin selection marker for optional maintenance of the tet-inducible cassette in cell culture (140 µg/ml hygromycin)

Quality Control

- All cell lines were determined to be mycoplasma negative.
- Post-cryostorage viability was determined to be approximately 80%.
- Karyotyping (>90% of cells with 40 chromosomes)
- As an alternative to MAP testing, the Molecular Diagnostics Infectious Disease PCR Assay (Mouse Essential Panel) was performed by Charles River Diagnostics. All results were negative.

Usage Recommendations

- The surface area for one well of a 6-well plate (9.5 cm²) is appropriate for the contents of one cryovial.
- After receiving shipment, store cells frozen for at least 24 hours in order to allow any residual CO₂ (from the dry ice used in shipment) to dissipate.
- Before thawing, allow the cryovial to stand at room temperature for 30 seconds to allow liquid nitrogen to evaporate. Then thaw the cryovial in a 37°C water bath.

WARNING: ALWAYS WEAR PROTECTIVE EYEWEAR WHEN HANDLING CRYOVIALS STORED IN LIQUID NITROGEN.

References

Beard C, Hochedlinger K, Plath K, Wutz A, Jaenisch R (2006). Efficient method to generate single-copy transgenic mice by site-specific integration in embryonic stem cells. *Genesis* **44**, 23–28.

Hochedlinger K, Yamada Y, Beard C, Jaenisch R (2005). Ectopic expression of *OCT-4* blocks progenitor-cell differentiation and causes dysplasia in epithelial tissues. *Cell* **121**, 465–477.