

## Product Description

Meningeal cells surrounding the brain participate actively in the normal development of the central nervous system. For example, they play important roles in both stabilizing the extracellular matrix of the pial surface and by organizing the radial glial scaffold and the lamination of the cerebellar cortex [1]. Selective pharmacological destruction of the meningeal cells during a critical ontogenetic period leads to specific malformation of both the cerebella cortex and dentate gyrus [1]. Grafts of meningeal cells, which are derived from meninges overlying the cerebral cortex in adult rat spinal cord lesion, promote axonal regrowth [2]. In vitro study show that meningeal cell chemotactically orients the migration of immature neurons but not glial cells [3].

iXCells Biotechnologies provides high quality Mouse Meningeal Cells (MMC), which are isolated from mouse leptomeningi and cryopreserved at P1, with >0.5 million cells in each vial. MMC express fibronectin and are negative to GFAP, alpha-smooth muscle actin and Thy 1. MMC are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 5 population doublings in Meningeal Cell Growth Medium (Cat# MD-0050) under the condition suggested by iXCells Biotechnologies.

## Product Details

<b>Tissue</b>	Mouse leptomeningi (strain C57BL/6 or CD1)
<b>Package Size</b>	0.5 million cells/vial
<b>Passage Number</b>	P1
<b>Shipped</b>	Cryopreserved
<b>Storage</b>	Liquid nitrogen
<b>Growth Properties</b>	Adherent
<b>Media</b>	Meningeal Cell Growth Medium (Cat# MD-0050)

## References

- [1] Hartmann, D., Sievers, J. Pehlemann, F. W. and Berry, M. (1992) Destruction of meningeal cells over the medial cerebral hemisphere of newborn hamster prevents the formation of the infrapyramidal blade of the dentate gyrus. *J. Comparative Neurol.* 320:33-61.
- [2] Franzen, R., Martin, D., Dalozze, A., Moonen, G. and Schoenen, J. (1999) Grafts of meningeal fibroblasts in adult rat spinal cord lesion promote axonal regrowth. *Neuroreport* 10:1551-1556.
- [3] Hartmann, D., Schulze, M. and Sievers, J. (1998) Meningeal cells stimulate and direct the migration of cerebellar external granule cells in vitro. *J. Neurocytol.* 27:395-409.

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