

Product Description

Meningeal cells surrounding the brain participate actively in the normal development of the central nervous system. They play important roles in stabilizing the extracellular matrix of the pial surface, organizing the radial glial scaffold, laminating the cerebellar cortex. 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]. Additionally, in vitro studies showed that meningeal cells chemotactically orient the migration of immature neurons but not glial cells [3].

iXCells Biotechnologies provides high quality Rat Meningeal Cells (RMC), which are isolated from rat leptomeningi and cryopreserved at P1, with >0.5 million cells in each vial. RMC express fibronectin and are negative for GFAP, \pm -smooth muscle actin and Thy1. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 5 population doublings in Fibroblast Growth Medium (Cat# MD-0011) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Rat leptomeningi
Package Size	0.5 million cells/vial
Passage Number	P1
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Fibroblast Growth Medium (Cat# MD-0011)

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., Daloz, 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.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com