

Product Description

Astrocytes are the majority cell type of the mammalian brain. Astrocytes have been implicated in a variety of supportive functions for their partner neurons in the CNS, such as neuronal guidance during development, and nutritional and metabolic support throughout life [1]. The functions of astrocytes are also complicated during pathological processes [2]. Numerous studies have demonstrated that astrocytes are among the most functionally diverse group of cells in the CNS [3]. Much of what we have learned about astrocytes is from in vitro studies and astrocyte culture is continually providing a useful tool in exploring the diverse property of astrocytes.

iXCells Biotechnologies provides high quality Mouse Astrocytes-hippocampal (MA-h), which are isolated from neonate day two mouse brain (hippocampal) and cryopreserved at P1, with >0.5 million cells in each vial. MA-h express GFAP are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi. They can further expand for 5 population doublings in Astrocyte Medium (Cat# MD-0039) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Neonatal day two mouse brain (hippocampus)
Package Size	0.5 million cells/vial
Passage Number	P1
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Astrocyte Medium (Cat# MD-0039)

References

[1] Astrocytes, pharmacology and function. Edited by Sean Murphy. 1993 by Academic press, Inc.

[2] Van der Laan, L. J. W., De Groot, C. J. A., Elices, M. J. and Dijkstran, C. D. (1997) Extracellular matrix proteins expressed by human adult astrocytes in vivo and in vitro: an astrocyte surface protein containing the CS1 domain contributes to binding of lymphoblasts. J. Neurosci. Res. 50:539-548.

[3] Shao, Y. and McCarhy, K. D. (1994) Plasticity of astrocytes. Glia 11:147-155.

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