



## Astrocyte Conditioned Medium-Serum Free (ACM-sf)

Catalog #1811-sf

### Description

Astrocytes are the most abundant cells in the central nervous system (CNS). Astrocytes provide a variety of biological functions, such as supporting endothelial cells involved in blood-brain barrier formation, providing nutrients to neurons, maintaining extracellular ion balance, and promoting repair in the CNS. Astrocyte conditioned medium-serum free (ACM-sf) has been widely used to support the growth of neurons and endothelial cells in culture. ACM has also been shown to protect neurons from corticosterone-induced damage [1].

ACM-sf is a liquid medium prepared from primary human astrocyte cultures by using astrocyte medium (Cat #1801) without serum conditioned for 48 hours. The medium is sterile filtered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO<sub>2</sub>/95% air.

### Product Use

ACM-sf is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

### Storage

Store the medium at 4°C. Protect from light.

### Shipping

Gel ice.

### References

[1] Zhu Z, Yang R, Fu X, Wang Y, Wu G. (2006) "Astrocyte-conditioned medium protecting hippocampal neurons in primary cultures against corticosterone-induced damages via PI3-K/Akt signal pathway." *Brain Res* 1114(1):1-10.

*Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.*