

Schwann Cell Growth Medium

SKU: MD-0055

PRODUCT SHEET

Product Description

Schwann cells are the principal glia of the peripheral nervous system (PNS). They are responsible for creating myelin sheath that insulates nerve fibers (axons) which are crucial for maintaining nerve health and normal function, and they also support axon regeneration after injury ^[1]. *In vitro* cultured Schwann cells are useful tools to study their biology, development, pathophysiology and potential relationship with neurons ^[2]. These studies usually involve isolating and *in vitro* culturing primary Schwann cells from various sources.

iXCells® Schwann Cell Growth Medium (SKU: MD-0055), containing Schwann Cell Basal Medium (Cat# MD-0055B), Fetal Bovine Serum (FBS, Cat# MD-0094), Antibiotic – Antimycotic (100X) (Cat# MD-0095), and Schwann Cell Growth Supplement (SCGS, Cat# MD-0055S), is formulated to support the expansion of primary Schwann cells isolated from human as well as other mammalian species (mouse, rat, bovine, etc.). The FBS and Antibiotic – Antimycotic are provided separately to provide researchers more flexibility for various culture systems. The medium has been tested for its ability to support the *in vitro* primary Schwann cell growth and to maintain the Schwann cell specific markers, such as S100b (with fully supplemented FBS, with or without Antibiotic – Antimycotic).

For Research Use Only

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SKU	MD-0055				
Country of manufacture	United States of America (USA)				
Quantity	One kit				
Form	Liquid				
Component, Package and Storage	Component	Name	Size	Shipping	Storage
	MD-0055B	Schwann Cell Basal Medium	500 mL	Room temperature	4°C
	MD-0094	Fetal Bovine Serum (FBS)	50 mL	Dry ice	-20°C
	MD-0095	Antibiotic – Antimycotic (100X)	5 mL	Dry ice	-20°C
	MD-0055S	Schwann Cell Growth Supplement (SCGS) (500X)	1 mL	Dry ice	-20°C
	<i>Note: The components for this kit require different shipping temperatures and will arrive in separate packaging.</i>				
Sterility Test	Negative for bacteria, yeast, fungi, and mycoplasma.				
Product line	<ul style="list-style-type: none"> • Mammalian cells • Primary cells • Normal serum (Fetal bovine serum, final concentration is ~10%) • With phenol red • Antibiotics is included in the kit 				
Product use	<ul style="list-style-type: none"> • Do not use components that are beyond the expiration date indicated on the label. • Tested in the iXCells primary Schwann cells following the recommended protocol in a 37 °C, 5% CO₂ incubator. • For laboratory research use only. Not for use in Diagnostic procedures. • Results may vary due to variations among species, organ or tissue origin, and donors. • Results may vary due to different culture conditions including temperature, CO₂ concentration, culture vessels, coating conditions, medium adding amount, and medium change frequency. For certain culture or test conditions, please follow the culture protocol for each specific cell type. • It is not approved for human or animal use. • Penicillin-Streptomycin, Antibiotics and antimycotics, or other antibiotics can be optional in the culture media. iXCells in house cell culture test was performed under antibiotics free condition for >=3 days by following the recommended protocol, and no bacterial or fungi contamination were observed during the culture period. 				
Precaution	<ul style="list-style-type: none"> • When handling biohazardous materials such as cryopreserved cells, safe laboratory procedures should be followed, and personal protective equipment should be worn including but not limited to face masks, gloves, and lab coat. 				

References

- [1] Oliveira JT, Yanick C, Wein N, Gomez Limia CE. Neuron-Schwann cell interactions in peripheral nervous system homeostasis, disease, and preclinical treatment. *Front Cell Neurosci.* 2023 Oct 12;17:1248922. doi: 10.3389/fncel.2023.1248922. PMID: 37900588; PMCID: PMC10600466.
- [2] Wei C, Guo Y, Ci Z, Li M, Zhang Y, Zhou Y. Advances of Schwann cells in peripheral nerve regeneration: From mechanism to cell therapy. *Biomed Pharmacother.* 2024 Jun;175:116645. doi: 10.1016/j.biopha.2024.116645. Epub 2024 May 9. PMID: 38729050.

Disclaimers

This product is for laboratory research purposes only and should not be used in humans. While iXCells Biotechnologies strives to provide accurate and current information on this product sheet, we do not guarantee its accuracy. Citations from scientific literature and patents are for informational purposes and may not be confirmed as accurate.

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