

# Schwann Cell Maintenance Medium

**SKU: MD-0124**

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## 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 <sup>[1]</sup>. In vitro cultured Schwann cells are useful tools to study their biology, development, pathophysiology and potential relationship with neurons. These studies involve isolating or differentiating Schwann cells from various sources, including primary PNS tissue or stem cells. Over the past few years, there has been considerable progress in the iPSC derived Schwann cells research. Normal or patient donor specific iPSC-derived Schwann cells offer an attractive experimental platform to study the development of PNS system, model Schwann cells related diseases, and accelerate predictive drug toxicology tests, and advance potential therapies <sup>[2]</sup>.

iXCells® Schwann Cell Maintenance Medium (SKU: MD-0124) is a complete medium for iPSC derived Schwann cells culture. It is a serum (low concentration) and antibiotic-antimycotic containing medium, without any additive components required for cell recovery and culture process. The low-serum condition provides the researchers with a more controlled and defined system for the following high-throughput drug testing, tissue engineering, and regenerative medicine research.

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## For Research Use Only

iXCells Biotechnologies USA, Inc. United States

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## Customer Support

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<b>Cat No.</b>	MD-0124				
<b>Country of manufacture</b>	United States of America (USA)				
<b>Quantity</b>	One bottle				
<b>Form</b>	Liquid				
<b>Component, Package and Storage</b>	<b>Component</b>	<b>Name</b>	<b>Size</b>	<b>Shipping</b>	<b>Storage</b>
	<u>MD-0124</u>	Schwann Cell Maintenance Medium	50 mL	Dry ice	-20°C
	<i>Note: This is a one component product and will arrive in one packaging.</i>				
<b>Sterility Test</b>	Negative for bacteria, yeast, fungi, and mycoplasma.				
<b>Product line</b>	<ul style="list-style-type: none"> <li>• Mammalian cells</li> <li>• iPS cells and derivatives</li> <li>• Low serum (Fetal bovine serum, final concentration is <math>\leq 1\%</math>)</li> <li>• With phenol red</li> <li>• With Antibiotics</li> </ul>				
<b>Product use</b>	<ul style="list-style-type: none"> <li>• Do not use components that are beyond the expiration date indicated on the label.</li> <li>• Tested in the iXCells Human Schwann Cells (iPSC-derived, Normal) following the recommended protocol in a 37 °C, 5% CO<sub>2</sub> incubator.</li> <li>• For laboratory research use only. Not for use in Diagnostic procedures.</li> <li>• Results may vary due to variations among species, organ or tissue origin, and donors.</li> <li>• Results may vary due to different culture conditions including temperature, CO<sub>2</sub> 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.</li> <li>• It is not approved for human or animal use.</li> <li>• Penicillin-Streptomycin, Antibiotics and antimycotics, or other antibiotics is included in the culture media.</li> </ul>				
<b>Precaution</b>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>				

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## 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] Tooi N, Okama R, Sato H, Inose H, Ogasawara H, Senda H, Nakatsuji N, Kato K, Kiboku T, Igura K. Robust differentiation of human pluripotent stem cells into Schwann cells. *Biochem Biophys Res Commun.* 2024 Oct 15;729:150353. doi: 10.1016/j.bbrc.2024.150353. Epub 2024 Jul 4. PMID: 38972137.

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## 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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