

## Specification Sheet

# StemLife™ NSC Culture Medium

LL-0070  
LM-0011  
LS-1105



This product is for Research Use Only.  
This product is not approved for human or  
veterinary use or for use in in vitro  
diagnostics or clinical procedures.



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## StemLife NSC Culture Medium

StemLife NSC Medium is optimized for the culture of human induced pluripotent stem cell (iPSC)-derived Neural Stem Cells: XCL-1 NSC, and XCL-6 NSC; as well as Human H9 (Embryonic Stem Cell)-derived NSCs, and Human Parthenote-derived NSCs. StemLife NSC supports the undifferentiated expansion of iPSC-derived Neural Stem Cells while maintaining the proper NSC morphology and gene expression.

StemLife Basal Medium contains no antimicrobials and no phenol red. Lifeline offers antimicrobials and phenol red; however, they are not required for eukaryotic cell proliferation.

## StemLife NSC Culture Medium Components

StemLife NSC is offered in a kit format composed of basal medium and associated supplements and growth factors called “LifeFactors™.” This kit allows you to prepare fresh medium in your laboratory, extending shelf life and enhancing performance. StemLife Basal Medium is provided in a light-protected 500 mL bottle. The remaining LifeFactors (growth factors and supplements) are packaged in a convenient gas-impermeable pouch for easy storage.

Product	Part No.	Volume	Final Concentrations in Supplemented Medium	Storage
<b>StemLife NSC Medium Complete Kit, (StemLife Basal Medium, StemLife NSC LifeFactors Kit)</b>	<a href="#">LL-0070</a>			2-8°C when prepared
<b>StemLife Basal Medium</b>	<a href="#">LM-0011</a>	485 mL		2-8°C
<b>StemLife NSC LifeFactors Kit</b>	<a href="#">LS-1105</a>			-20°C
rh EGF LifeFactor	<a href="#">LS-1046</a>	1 mL	10 ng/mL	-20°C
L-Alanyl-L-Glutamine LifeFactor	<a href="#">LS-1053</a>	6 mL	2.4 mM	-20°C
NeuraFactor™ LifeFactor	<a href="#">LS-1106</a>	10 mL	proprietary	-20°C
rh FGFb LifeFactor	<a href="#">LS-1107</a>	2 mL	20 ng/mL	-20°C
Antimicrobial Supplement: Gentamicin and Amphotericin B (Provided with purchase of LL-0070 and LL-0073)	<a href="#">LS-1104</a>	0.5 mL	Gentamicin 30 µg/mL Amphotericin B 15 ng/mL	-20°C
<b>StemLife NSC Medium + Fibronectin Kit</b>	<a href="#">LL-0073</a>		StemLife Basal Medium StemLife NSC LifeFactors Kit Fibronectin Solution	2-8°C when prepared
Optional Supplements	Part No.	Volume	Concentrations of Supplement	Storage
Phenol Red Supplement	<a href="#">LS-1009</a>	1 mL	33 mM	RT
Other Recommended Products		Part No.	Unit	Storage
Human XCL-1-derived Neural Stem Cells (XCL-1 NSC)		<a href="#">IC-0001</a>	1,000,000 cells/mL	-150°C
Fibronectin Solution, 10 mL		<a href="#">CM-0098</a>	0.1 mg/mL	2-8°C



Call Lifeline Technical Service and Sales at **877.845.7787**

Or visit [lifelinecelltech.com](http://lifelinecelltech.com) for more information

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## Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates ISO style quality assurance in every production run. Exacting standards and production procedures ensure lot-to-lot consistency. Every production lot of StemLife NSC Medium is extensively tested using XCL-1 Neural Stem Cells. StemLife NSC Medium and Gentamicin-Amphotericin B (LS-1104) are cell culture tested separately.

- |                     |   |              |                 |
|---------------------|---|--------------|-----------------|
| • Sterility Testing | Negative for bacteria and fungal growth | • Osmolality | 270 +/- 10 mOsm |
| • pH                | 7.8 +/- 0.3                             | • Endotoxin  | < 0.5 EU/mL     |
| • Cell Testing      | Rate of proliferation and morphology    |              |                 |

## The Lifeline® Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. Upon request, Lifeline will provide lot-specific QC test results, material safety data sheets and certificates of analysis. See complete guarantee/warranty statement at [lifelinecelltech.com](http://lifelinecelltech.com) or contact your Lifeline representative for more information.



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