

Media Selection Guide

Choosing the right cell culture products for your neural and stem cell culture applications

Stem Cell Culture

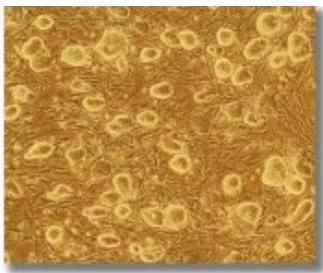
Stem cell culture requires media that has consistent quality and is free of contaminants. Each lot of cell culture medium from MTI-GlobalStem is rigorously tested to our PluriQ™ standards for quality, purity, and the effective maintenance of pluripotent stem cells over multiple passages to ensure culture health, morphology and lack of unwanted differentiation.

PluriQ™ Media for Feeder-Free Stem Cell Reprogramming and Maintenance

- **PluriQ™ G9 Medium for hESC/iPSC Reprogramming (GSK-9002)** - a defined, xeno-free, feeder-free medium used for reprogramming somatic cells into pluripotent cells *in vitro*.
- **PluriQ™ G9 Medium for hESC/iPSC Maintenance (GSK-9001)** - a defined, xeno-free, feeder-free medium used for expansion and maintenance of human ES and human iPS cells *in vitro*. Available as a conditioned medium

PluriQ™ Media for Pluripotent Stem Cell Maintenance

- **PluriQ™ ES-DMEM/F12 Medium (GSM-1002)** - standard formulation for culturing human pluripotent ES and iPS cell lines, backed by PluriQ™ quality testing.
- **PluriQ™ ES-DMEM Medium (GSM-2001)** - classic formulation optimized for mouse ES cell culture.
- **PluriQ™ Human Cell Conditioned Medium (GSM-9200)** - a serum-free conditioned medium optimized and verified for feeder-free growth of human pluripotent stem cells.
- **PluriQ™ Mouse Fibroblast Conditioned Medium (GSM-4100)** - a serum-free conditioned medium designed for feeder-free culture of human pluripotent stem cells.



PluriQ™ FBS

Fetal bovine serum qualified using pluripotent stem cells in culture.
GSM-6002



PluriQ™ Serum Replacement

An optimized, defined, serum-free supplement formulated as a direct replacement for FBS for culturing healthy, undifferentiated human embryonic stem cells (hESCs) and induced pluripotent stem cells (iPSCs). *GSM-6101*



Growth Factors

Highly pure human recombinant FGF-2 (bFGF) and mouse leukemia inhibitory factor (mLIF) for maintaining stem cells in a pluripotent state. *GSR-2001, GSR-7001*

Neural Cell Culture

When culturing neural stem cells, it is important to not only maintain an undifferentiated state for the desired amount of time, but control, as much as possible, the differentiation pathway. Each lot of cell culture medium from MTI-GlobalStem is designed specifically for controlling neural cell differentiation and supporting optimal health of mature cells in culture.

Optimized Media and Supplements for Neural Cell Growth and Maintenance

- **NeuralQ™ Basal Medium (GSM-9420)** - a chemically defined, xeno-free medium that works best when supplemented with GS21™ Neural Supplement for maximum growth and long-term viability of primary and iPSC-derived neural cells in culture.
- **GS21™ Supplement (GSM-3100), available without antioxidants (GSM-3110 or without steroids (GSM-3120)** - a serum-free neural media supplement specifically formulated to facilitate optimal health and long-term viability in primary rat and mouse neurons in culture. Designed for use with NeuralQ™ Basal Medium (GSM-9420).
- **NeuralX™ Neural Stem Cell Medium (GSM-9320)** - a chemically defined, xeno-free medium that works best when supplemented with GS22™ Supplement for optimal growth and maintenance of neural stem cells *in vitro*.
- **GS22™ Neural Supplement (GSM-3200)** - a serum-free neural media supplement specifically optimized for the propagation and long-term viability of proliferative neural cells, such as human iPSC-derived neural stem cells or rat primary oligodendrocyte precursors. GS22™ Supplement is intended to be used with NeuralX™ Basal Medium.

Classic Neural Media and Supplements

- **N2 Medium Supplement (GSM-3300)** - a chemically defined, serum-free formulation for expansion of undifferentiated neural stem and progenitor cells in culture, and maintenance of post-mitotic primary neurons, manufactured to MTI-GlobalStem's stringent PluriQ™ standards.

Quick Guide

Medium/Supplement	Application		
	Reprogramming	Maintenance/ Expansion	Differentiation
PluriQ™ G9 Medium for hESC/iPSC Reprogramming (GSK-9001)	X		
PluriQ™ G9 Medium for hESC/iPSC Maintenance (GSK-9002). Available as a conditioned medium (GSM-9010).		X	
PluriQ™ ES-DMEM Medium (GSM-2001) and ES-DMEM/F12 (GSM-1002)		X	
PluriQ™ Human Cell Conditioned Medium (GSM-9200) and Mouse Conditioned Medium (GSM-4100)		X	
NeuralQ™ Basal Medium (GSM-9420) used with GS21™ Supplement (GSM-3100), GSM-3110, GSM-3120)		X	
NeuralX™ Neural Stem Cell Medium (GSM-9320) used with GS22™ Neural Supplement (GSM-3200)		X	X
N2 Medium Supplement (GSM-3300)		X	X