

# NexaGel® STEM



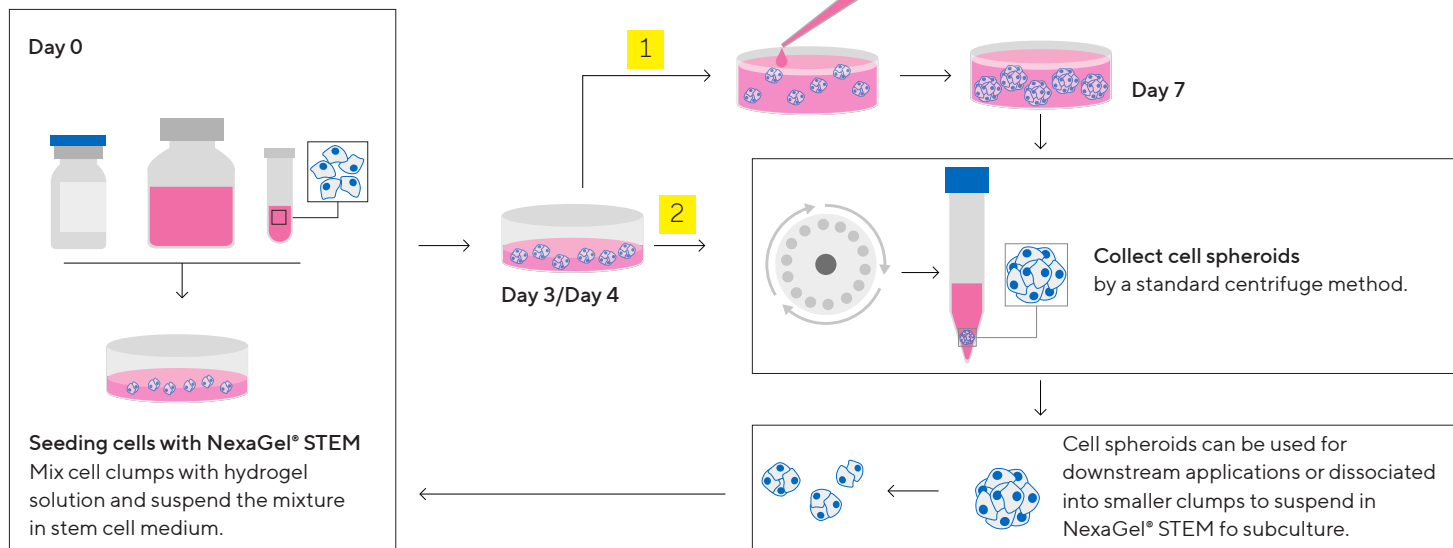
## Product Information

NexaGel®\* STEM is a xeno-free hydrogel system designed to enhance the performance of three-dimensional (3D) static suspension cultures and facilitate the scale-up of human pluripotent stem cells (hPSCs), creating a high-throughput platform for modeling various tissues and disease states.

This ready-to-use hydrogel system features an optimized formulation that supports the rapid expansion of high-quality 3D stem cell spheroids with pluripotent characteristics. hPSCs can be directly thawed from liquid nitrogen or transferred from 2D matrix-coated culture vessels and immediately mixed with the hydrogel solution for static suspension cultures.

The optimized protocol is particularly beneficial for time-sensitive experiments, as it minimizes the need for frequent medium exchanges, thereby saving time and resources. This hydrogel system is compatible with most hPSC culture media and tissue culture vessels.

Thanks to the unique static suspension culture method, the need for microcarriers in large-scale bioreactors is eliminated, simplifying and streamlining cell harvesting. The 3D stem cell spheroids generated using this system can be utilized for further sub-culturing, patterned differentiation, organoid development, or re-establishing 2D culture morphologies.



## Specifications

Hydrogel Formulation	Animal-Component Free, functional hydrogel
Use	3D static suspension culture for hPSCs
Operation	Ready-to-use at room temperature
Biocompatibility	Biocompatible, safe for animal studies
Injection	Injectable hydrogel for <i>in vivo</i> studies and lab automation
Cell Harvesting	NexaGel® Cell Recovery Solution 5 - 15 min cell recovery
pH	Neutral
Storage	Store at 2 - 8 °C. Ships at ambient temperature
Sizes	10 mL and 2 mL
Number of Uses	(10 mL) 90 - 180 mL suspension culture (2 mL) 15 - 30 mL suspension culture

## Ordering Information

Description	Catalog Number
NexaGel® STEM	NGH02
	NGH02S

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