

# NexaGel® ORGANOID

## Product Information

NexaGel®\* ORGANOID (1–4) are animal origin-free hydrogels specifically designed to support the cultivation of patient-derived organoids, organoids from pluripotent stem cells (PSCs), co-cultures, and PDX models. The NexaGel® ORGANOID KIT includes four unique hydrogels, each with varying bio-functional ligands, mechanical properties, and biodegradability to cater to diverse organoid culture needs.

These hydrogels are ready for immediate use at room temperature, maintaining a neutral pH, transparency, permeability, and compatibility with various imaging systems. They form a hydrogel matrix simply by mixing with the cell culture medium. NexaGel® ORGANOID hydrogels are

\* NexaGel® is a registered trademark of Sartorius Bioanalytical Instruments, Inc. For details on the registrations please refer to our website <https://www.sartorius.com/en/patents-and-trademarks>.

versatile, suitable for both 3D cell culture and 2D hydrogel coating applications.

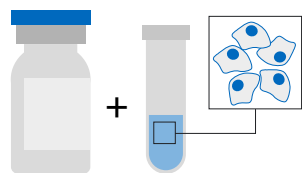
Moreover, these hydrogels can be used alongside NexaGel® STEM (Cat# NGH02), a hydrogel system designed for 3D static suspension cultures and the expansion of human pluripotent stem cells. Stem cell spheroids cultured in NexaGel® STEM can be transferred to NexaGel® ORGANOID hydrogels for further organoid differentiation. Essential growth factors and molecules can be incorporated directly into the hydrogel matrix or applied on top.

Organoids grown in this system can be easily harvested using the NexaGel® Cell Recovery Solution. NexaGel® ORGANOID hydrogels offer a well-defined 3D microenvironment, advancing the field of personalized medicine.

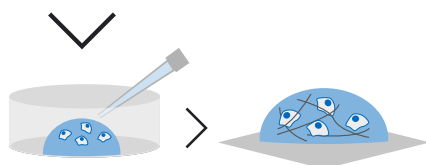


### 3D Dome Method with NexaGel®

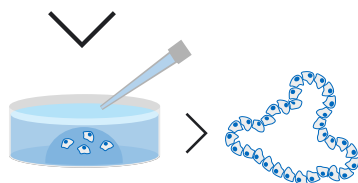
Use non-tissue culture with treated plate



1. Mix NexaGel® + cell suspension at 2:1 (v/v) ratio



2. Add as a dome and incubate at room temperature for 10 – 15 min



3. Add medium and incubate

## Specifications

Hydrogel Formulation	Animal-Component Free, functional hydrogel
Use	Organoid culture
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	Single Vial: 10 mL Discovery Kit: (2 mL) each of ORGANOID-1, ORGANOID-2, ORGANOID-3, ORGANOID-4
Number of Uses	(10 mL): 600 uses at 25 µL per dome or 300 uses at 50 µL per well (2 mL): 120 uses at 25 µL per dome or 60 uses at 50 µL per well

## Ordering Information

Description	Catalog Number
NexaGel® Organoid	NGH04-K
	NGH04-1
	NGH04-2
	NGH04-3
	NGH04-4

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