



TissueSpec® Intestine ECM Hydrogel

Catalog # MTSIN101

TissueSpec® Intestine ECM Hydrogel supports human and mouse intestinal organoids.

Human intestinal organoids in TissueSpec® Intestine ECM Hydrogel

iPSC-derived human intestine organoids (iHIOs) were embedded in TissueSpec® Intestine ECM Hydrogel as spheroids. During expansion, iHIOs changed shape, displayed budding, and formed lumenized structures (Figure 1, 2).

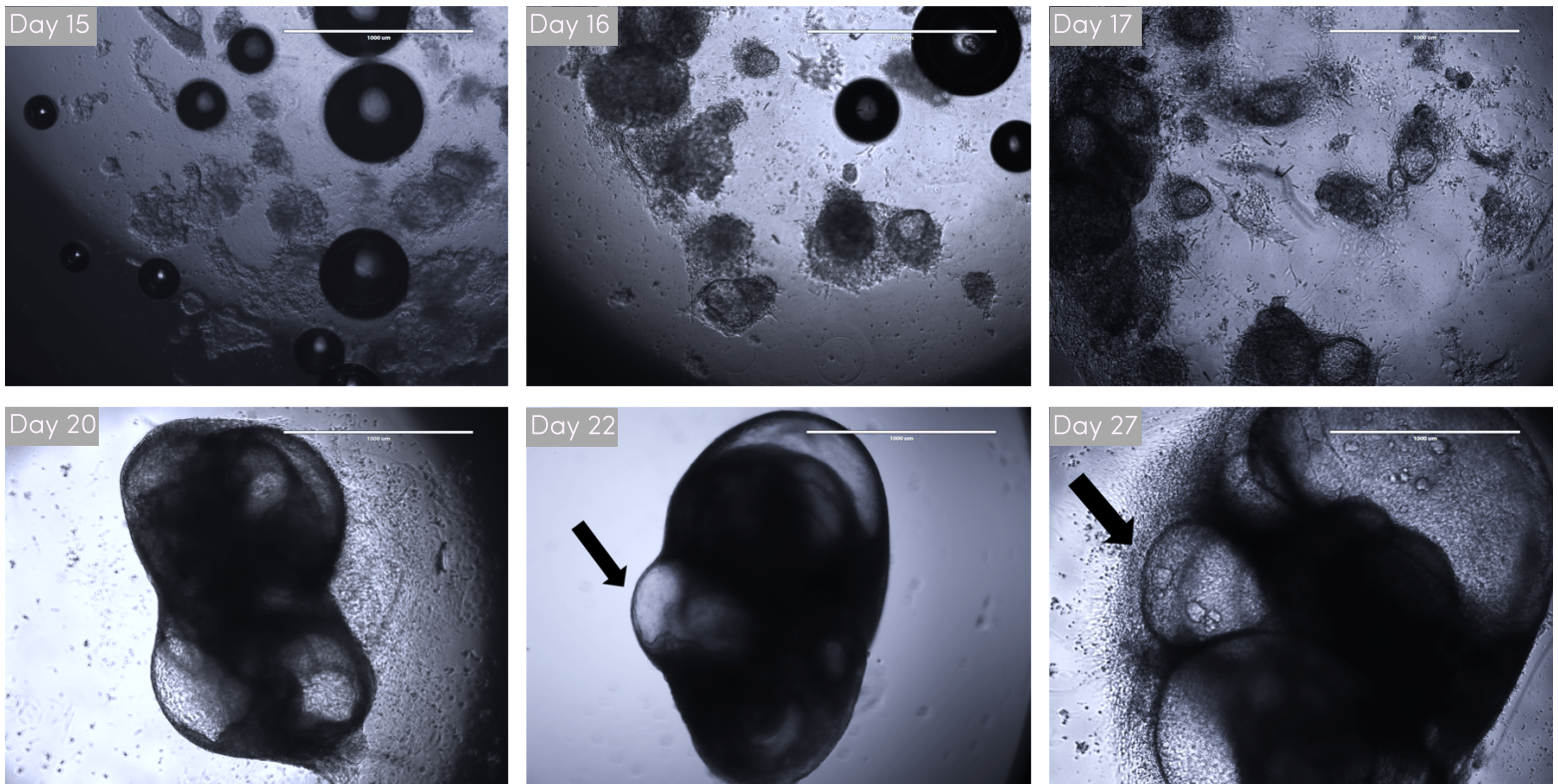


Figure 1 | Human intestinal organoids in TissueSpec® Intestine ECM Hydrogel.

Light microscopy of 3D culture of iPSC-derived iHIOs in TissueSpec® Intestine ECM Hydrogel. Arrows indicate regions of spheroid outgrowth at day 22 and day 27. Scale bar: 1 mm.

Images courtesy of Dr. Chandan Guha, Department of Radiation Oncology, Albert Einstein College of Medicine

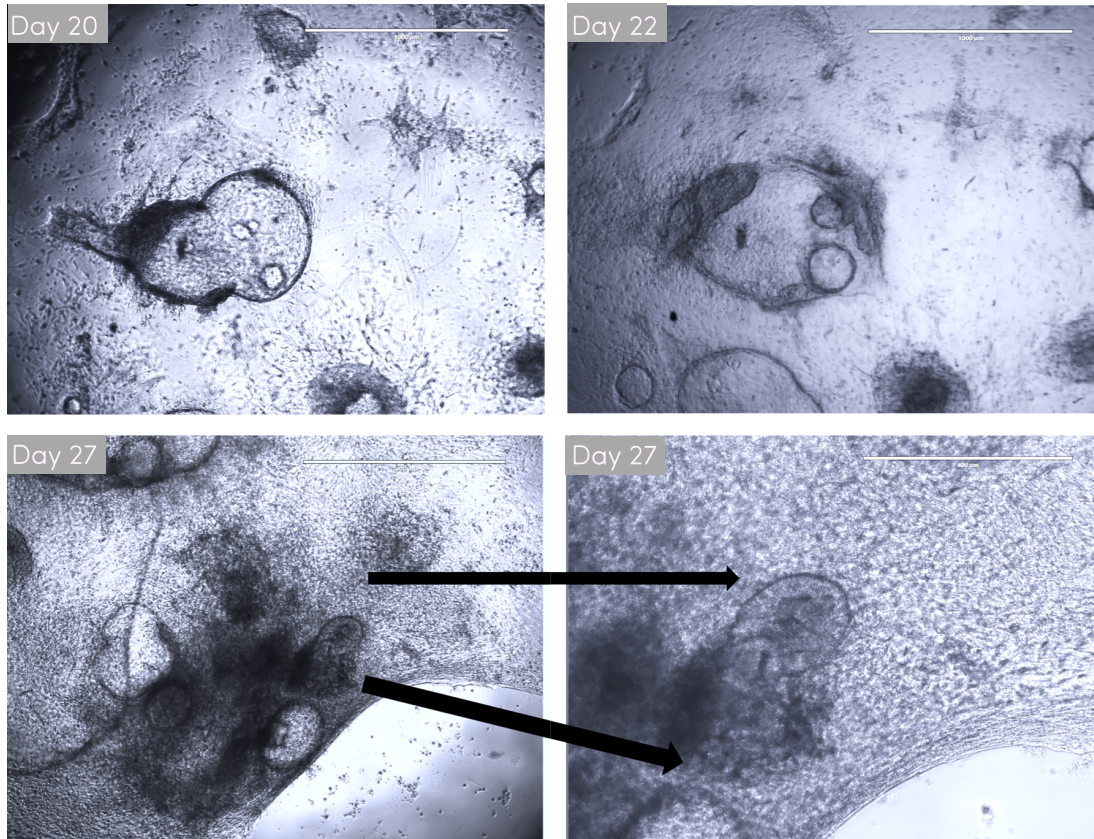


Figure 2 | Human intestinal organoids in TissueSpec® Intestine ECM Hydrogel.

iPSC-derived intestinal organoids were encapsulated in TissueSpec® Intestine ECM Hydrogel and cultured for 27 days. Scale bar: 1 mm.

Images courtesy of Dr. Chandan Guha, Department of Radiation Oncology, Albert Einstein College of Medicine



Mouse intestinal crypts cultured in TissueSpec® Intestine ECM Hydrogel

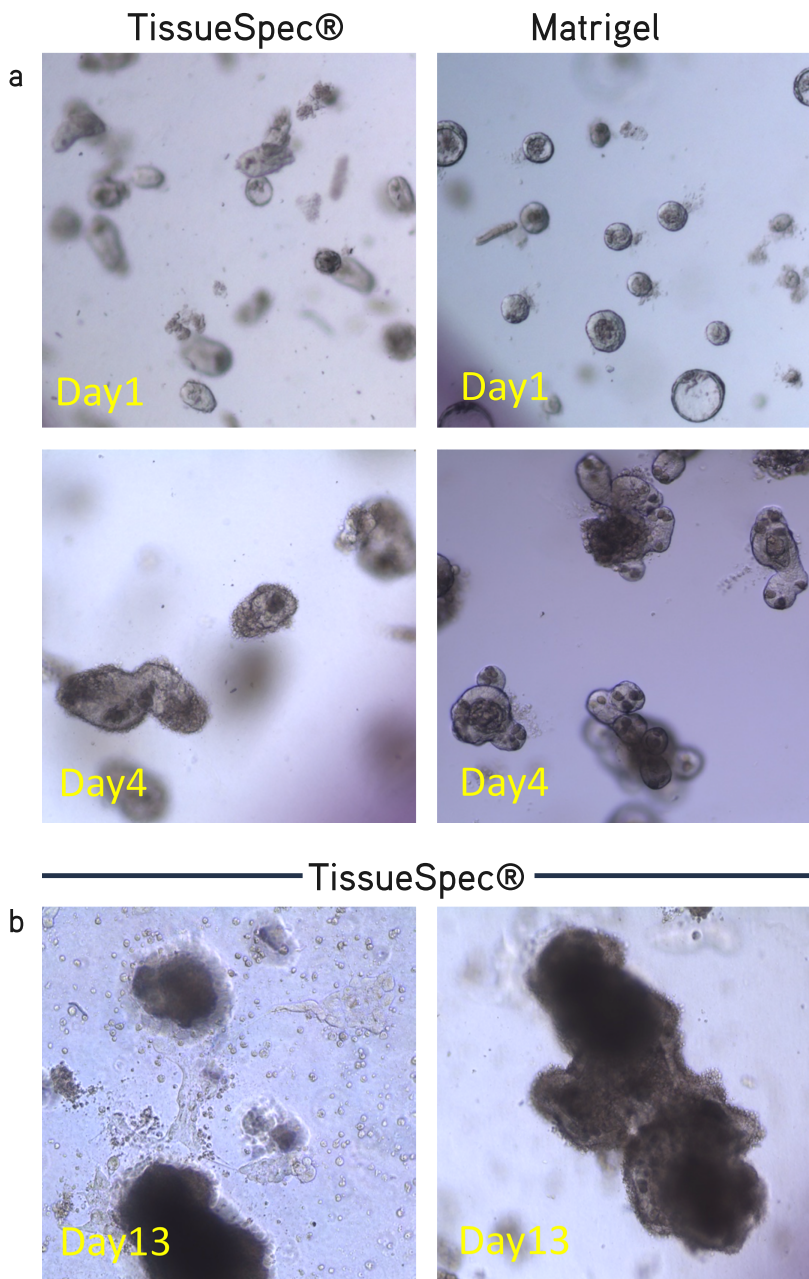


Figure 3 | Mouse intestinal crypts in TissueSpec® Intestine ECM Hydrogel.

(a) Morphologic comparison of mouse intestinal crypts in TissueSpec® Intestine ECM Hydrogel and Matrigel. When encapsulated in TissueSpec® Intestine ECM Hydrogel, mouse intestinal crypts exhibit a more in vivo-like morphology compared to crypts cultured in Matrigel. (b) Mouse intestinal crypts were cultured for 13 days in TissueSpec® Intestine ECM Hydrogel and formed organoids.

Images courtesy of Dr. Tim Wang, Herbert Irving Comprehensive Cancer Center, Columbia University Medical Center



Ordering information

TissueSpec® ECM Hydrogel	Catalog #	Volume
Blood Vessel ECM	custom	1mL
Bone ECM	MTSBN101	1mL
Cartilage ECM	custom	1mL
Colon ECM	custom	1mL
Esophagus ECM	custom	1mL
Heart ECM	MTSHT101	1mL
Intestine ECM	MTSIN101	1mL
Kidney ECM	MTSKY101	1mL
Liver ECM	MTSLV101	1mL
Lung ECM	MTSLG101	1mL
Muscle ECM	custom	1mL
Pancreas ECM	custom	1mL
Skin ECM	MTSSK101	1mL
Stomach ECM	custom	1mL

Custom order

TissueSpec® ECM Hydrogels are available from additional organs, specific tissue regions, and alternative sources, including human.

Contact

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