

Galatek

Organoid Culture Kit

Make Organoid Culture Easy for Everyone

Empowering the rapid development of the organoid industry with automation, digitalization, and intelligence

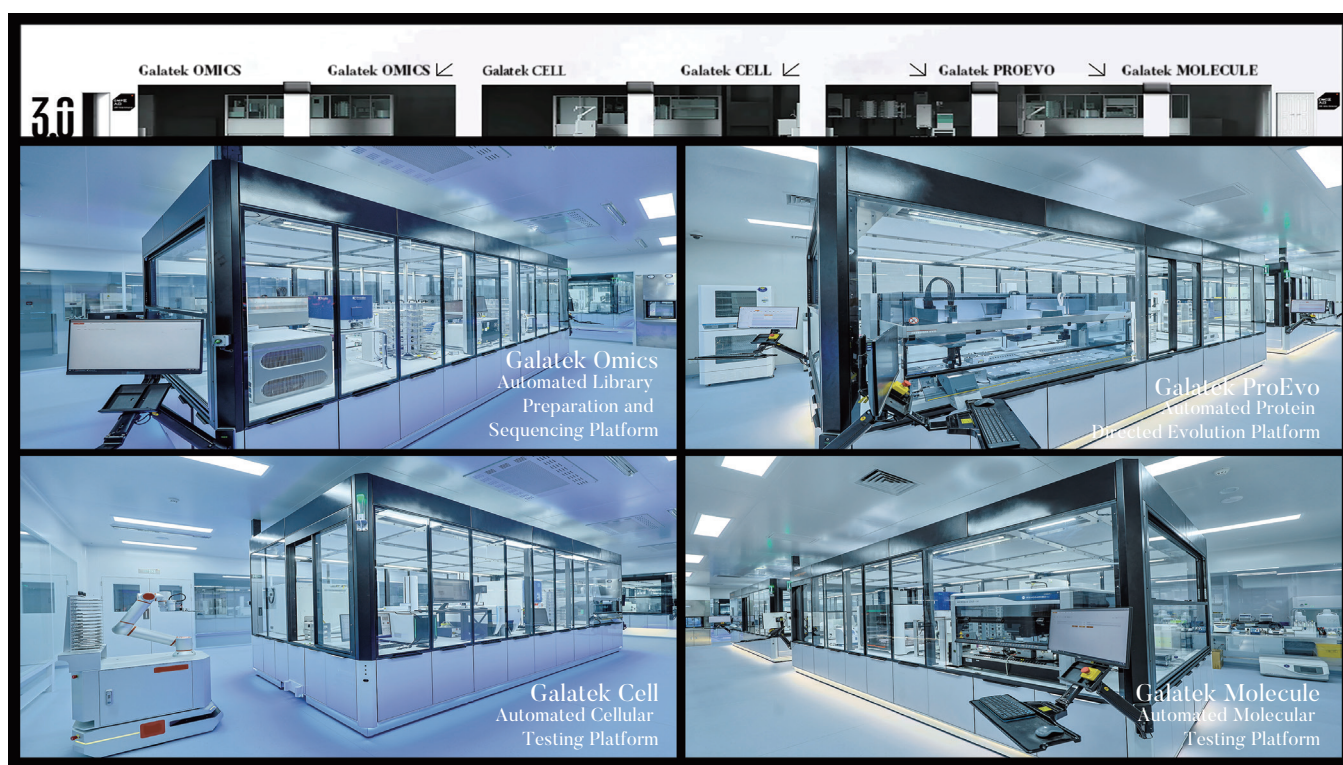


About Galatek

Galatek, powered by Galatek Lab, is focusing on the research of synthetic biology, high-throughput drug screening, organoid, multi-omics, high-throughput gene editing, antibody discovery, etc. Galatek deeply integrates engineering technology and life sciences, and is committed to providing the industry with advanced productivity tools, accelerating the development of life sciences, and leading the upcoming revolution in biological sciences.

With the years of experience in AI and robot automation technology, as well as a professional team of interdisciplinary and diversified experts, Galatek has built a comprehensive capability ecosystem of “Automation+AI+Biology”, and is committed to building a high-quality data factory in the life sciences.

Galatek Lab, 5 Newly Upgraded Platforms



Galatek Digital Intelligence Platform

LABILLION™
Data
Management
Software

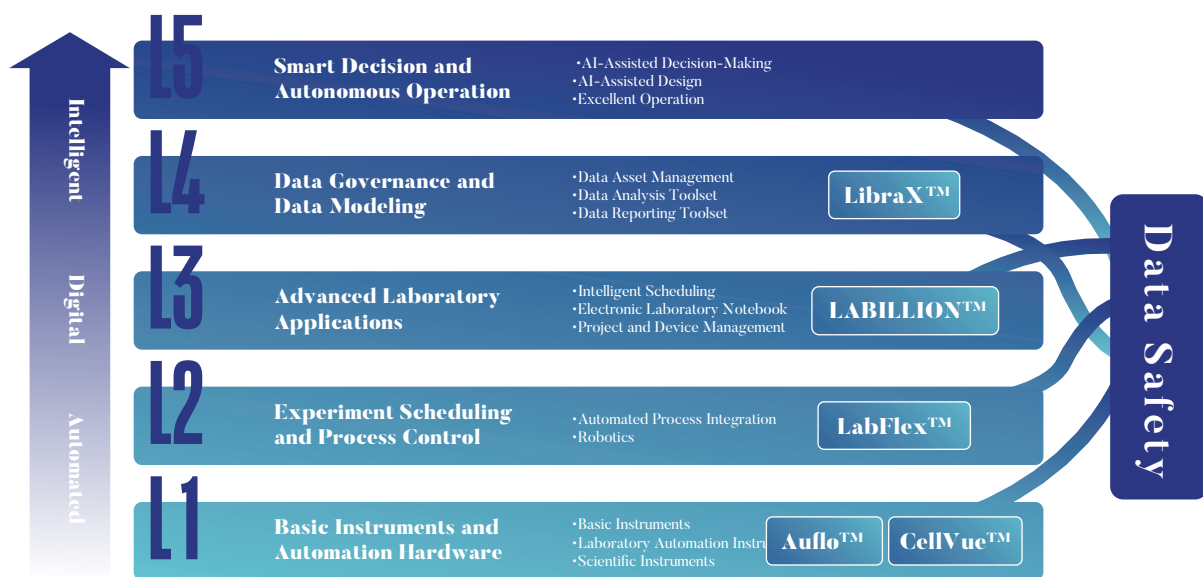
LibraX™
Data
Intelligence
Software

Laminar™
Digital Twin
Software

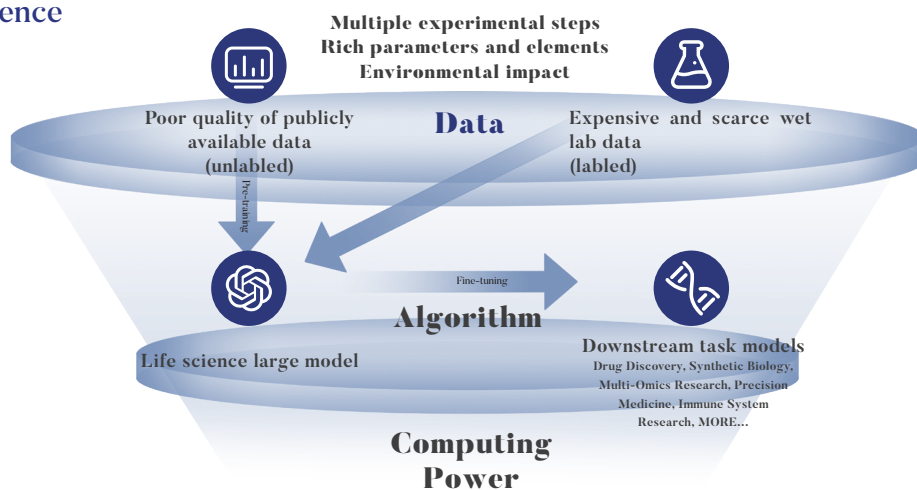
CyberX™
Bioinformatics
and Data
Science Software

Automation Platform Generates High-Quality Data Digital Intelligence Platform Governs Data

The MegaLab 3.0 combines digital intelligence and automation platforms. With the automation platform as its foundation, the lab efficiently plans and executes experimental processes while integrating multi-source data, which ensures the efficient generation of high-quality data. At the same time, the digital intelligence platform carries out deep cleaning and comprehensive governance of the experimental data, applying advanced algorithms and intelligent rules to strictly control the data quality, ensuring the accuracy, completeness and consistency of the data, and generating standard datasets that are directly usable for AI training.

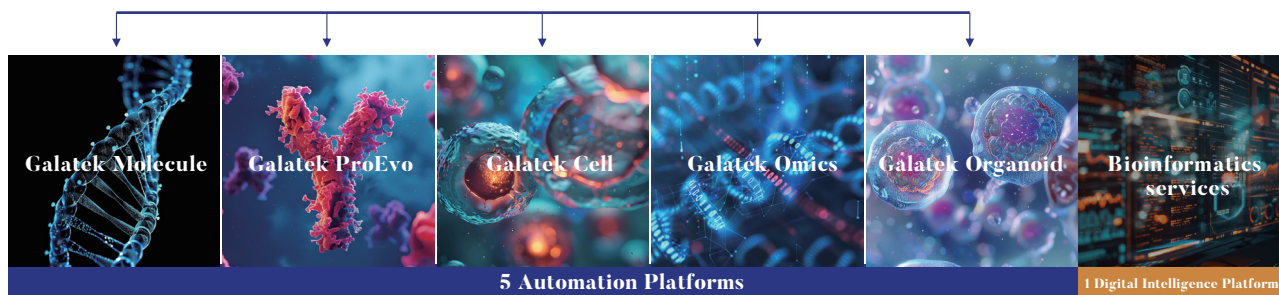


AI For Life Science



Applications

Mobile robots further enhance the automation level of the laboratory



Organoid Culture Kit

Organoids are tissue-like structures formed by in vitro 3D culture of adult stem cells (ASC) or pluripotent stem cells (PSC). They can simulate real organs in both structure and function, and reproduce the pathophysiological and physiological functions of the organs.

Galatek Robo provides efficient and stable organoid culture kits, optimizing the experimental steps and improving the success rate of organoid culture.

Galatek Lab + AI empowers organoid kit development, making organoid culture accessible to all



- Galatek Lab Automation Platform Accelerates Organoid Construction
- Galatek Lab Automation Platform + AI Accelerates Organoid Kit Optimization
- Development Cycle as Fast as 1 Month

Product Features

High culture success rate

- AI empowers development of optimal formulas
- AI-driven whole-process standard data set ensures success rate

Good batch-to-batch stability

- Serum-free, with well-defined components
- Rigorous quality control

High physiological relevance

- Effectively retains mammalian tissue and genetic characteristics
- Maintains primary tissue heterogeneity

Ease of use

- Provides standard operating process
- Provides professional after-sales support

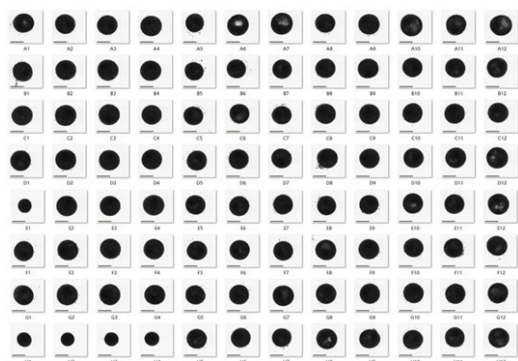
Seamless matching with workstations

- Works with organoid culture workstations
- No need for tedious adaptation
- Improves experimental efficiency

Wide range of products

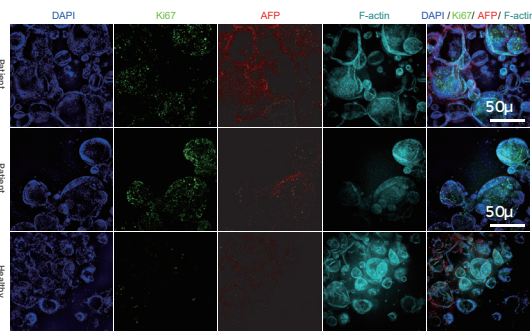
- Including human, mouse, and iPSC-derived organoids
- Complete range of matrigel and auxiliary reagents

Cases Display



· Cardiac organoids exhibit a rhythmic beating rate of >80 %

· Overall construction success rate for ASC-derived organoids exceed 90 %



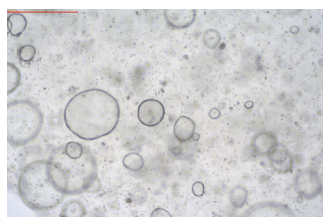
Growth of colorectal cancer organoids derived from human colorectal cancer tissue

The above results indicate that the Galatek Organoid Kit can effectively support the growth of tumor organoids while highly maintaining the expression of unique biomarkers inherent to the patient's body, with a strong physiological and pathological relevance of the organoids.

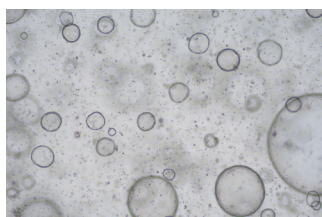
Cases Display

Using the Organoid Kit, organoids derived from both tumor tissues and normal tissues can be effectively cultured.

Gastric cancer organoid growth status images

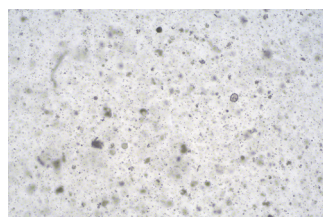


Day 6

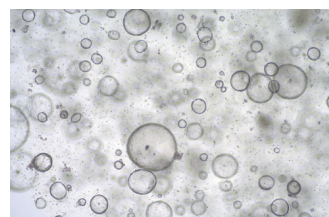


Day 8

Paracancerous gastric cancer organoid growth status images

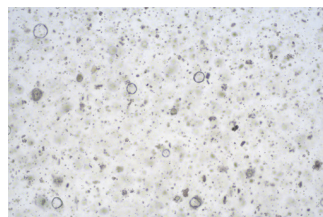


Day 1

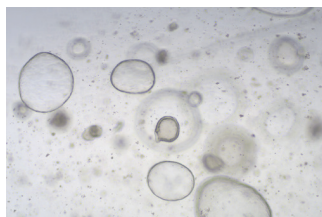


Day 6

Colorectal cancer organoid growth status images

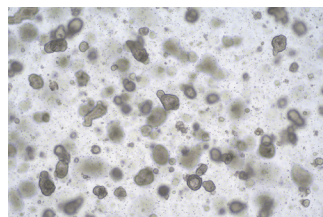


Day 7

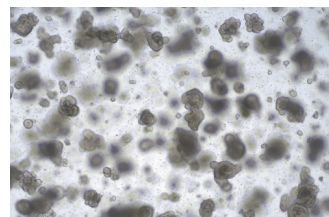


Day 11

Paracancerous colorectal cancer organoid growth status images

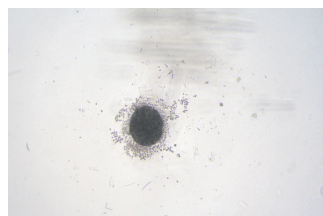


Day 3

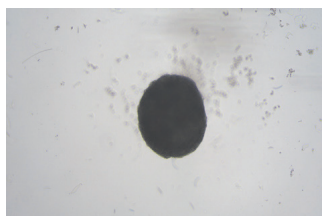


Day 6

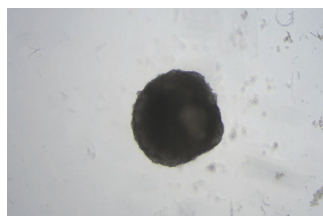
Cardiac organoid growth status images



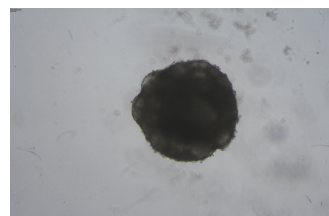
Day 1.5



Day 6.5



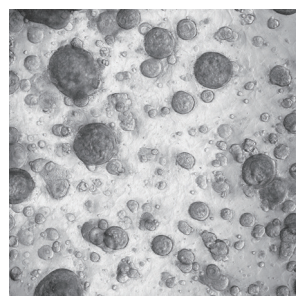
Day 13.5



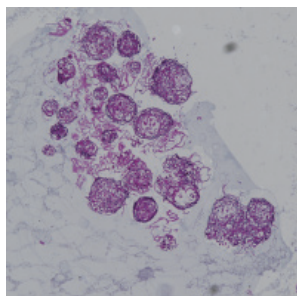
Day 17.5

The above images are all captured using a traditional inverted microscope (brightfield mode)

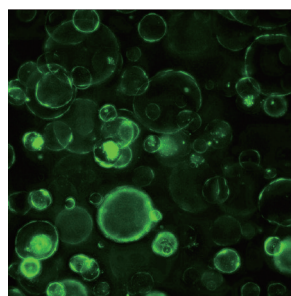
CellVue™ T2000 High Content Cell Screening System



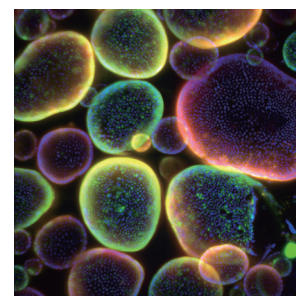
Brightfield image of
esophageal cancer organoid



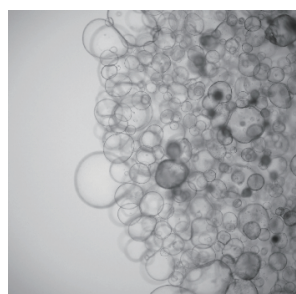
Color brightfield image of
esophageal cancer organoid



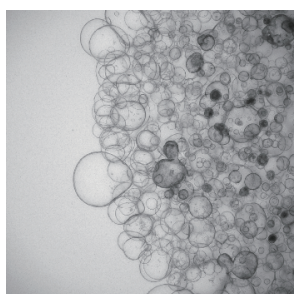
Fluorescence image of gastric cancer organoid



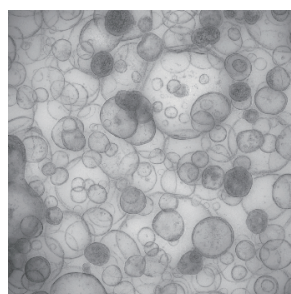
Gastric Cancer Organoid



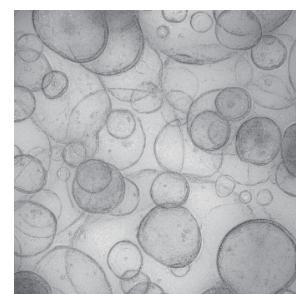
4x



Z-stack 4x

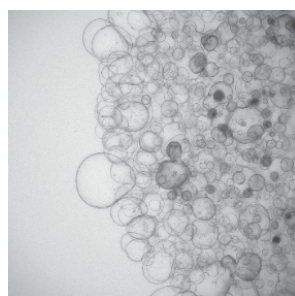


Z-stack 10x

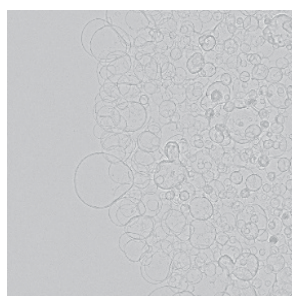


Z-stack 20x

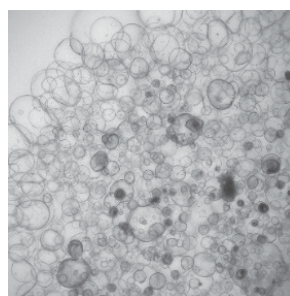
Gastric Cancer Organoid



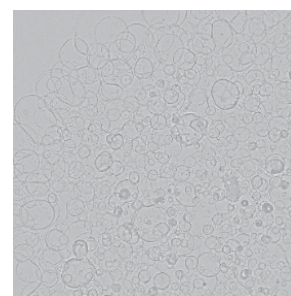
4x



4x Background-normalized



4x

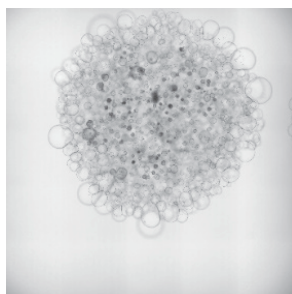


4x Background-normalized

Gastric Cancer Organoid

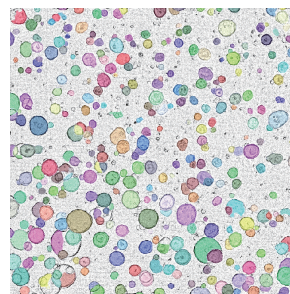


4x 2*2 stitched



4x 2*2 stitched

Lung Cancer Organoid



Organoid recognition & segmentation



The above images were captured by Galatek Robo's self-developed CellVue® T2000 High Content Cell Screening System

Galatek Organoid Kits - Product List

Organoid Kit Suit

Components	Source Types	Name	Size	Cat.No.
Whole Process Reagent for Organoids Complete Medium + Martrigel + Digestion Solution, etc.	Human Tumor Organoid Kit	Human Colorectal Cancer Organoid Kit	100mL, 500mL	M-HCCK-01/02
		Human Gastric Cancer Organoid Kit	100mL, 500mL	M-HGCK-01/02
		Human Endometrial Cancer Organoid Kit	100mL, 500mL	M-HECCK-01/02
		Human Esophageal Cancer Organoid Kit	100mL, 500mL	M-HESCK-01/02
		Human Ovarian Cancer Organoid Kit	100mL, 500mL	M-HOCK-01/02
	Human Normal Tissue Organoid Kit	Human Gastric Organoid Kit	100mL, 500mL	MHGK-01/02
		Human Intestinal Organoid Kit	100mL, 500mL	M-HIK-01/02
		Human Colonic Organoid Kit	100mL, 500mL	M-HCK-01/02
		Human Endometrial Organoid Kit	100mL, 500mL	M-HECK-01/02
		Human Esophageal Organoid Kit	100mL, 500mL	M-HESK-01/02
		Human Liver Ductal Organoid Kit	100mL, 500mL	M-HBDK-01/02
		Human Fallopian Tube Organoid Kit	100mL, 500mL	M-HFTK-01/02
	iPSC-derived Organoid Kit	iPSC-derived Human Cardiac Organoid Kit	30pcs/kit, 60pcs/kit	M-iHCarOK-01/02
		iPSC-derived Human Liver Organoid Kit	100mL, 500mL	M-iHLOK-01/02
		iPSC-derived Human Colonic Organoid Kit	100mL, 500mL	M-iHCOK-01/02
		iPSC-derived Human Intestinal Organoid Kit	100mL, 500mL	M-iHIK-01/02

Whole Process Reagent for Organoid Culture - Product List

Organoid Medium & Digestion Suit

Components	Source Types	Name	Size	Cat.No.
Organoid Complete Medium + Tumor/Normal Tissue Digestion + Organoid Disociation Solution	Human Tumor Organoid Kit	Human Colorectal Cancer Organoid Medium & Digestion Suit	100mL , 500mL	M-HCCB-01/02
		Human Gastric Cancer Organoid Medium & Digestion Suit	100mL , 500mL	M-HGCB-01/02
		Human Endometrial Cancer Organoid Medium & Digestion Suit	100mL , 500mL	M-HECCB-01/02
		Human Esophageal Cancer Organoid Medium & Digestion Suit	100mL , 500mL	M-HESCB-01/02
		Human Ovarian Cancer Organoid Medium & Digestion Suit	100mL , 500mL	M-HOCB-01/02
	Human Normal Tissue Organoid Kit	Human Gastric Organoid Medium & Digestion Suit	100mL , 500mL	MHGB-01/02
		Human Intestinal Organoid Medium & Digestion Suit	100mL , 500mL	M-HIB-01/02
		Human Colonic Organoid Medium & Digestion Suit	100mL , 500mL	M-HCB-01/02
		Human Endometrial Organoid Medium & Digestion Suit	100mL , 500mL	M-HECB-01/02
		Human Esophageal Organoid Medium & Digestion Suit	100mL , 500mL	M-HESB-01/02
		Human Liver Ductal Organoid Medium & Digestion Suit	100mL , 500mL	M-HBDB-01/02
		Human Fallopian Tube Organoid Medium & Digestion Suit	100mL , 500mL	M-HFTB-01/02
	Mouse Normal Tissue Organoid Kit	Mouse Intestinal Organoid Medium & Digestion Suit	100mL , 500mL	M-MIB-01/02
		Mouse Colonic organoid Medium & Digestion Suit	100mL , 500mL	M-MCB-01/02
		Mouse Gastric Organoid Medium & Digestion Suit	100mL , 500mL	M-MGB-01/02
		Mouse Airway Organoid Medium & Digestion Suit	100mL , 500mL	M-MAB-01/02
		Mouse Liver Ductal Organoid Medium & Digestion Suit	100mL , 500mL	M-MBDB-01/02

Organoid Medium Suit

Components	Source Types	Name	Size	Cat.No.
Organoid Basal Medium A + Supplement B + Supplement C	Human Tumor Organoid Kit	Human Colorectal Cancer Organoid Medium Suit	100mL , 500mL	M-HCCM-01/02
		Human Gastric Cancer Organoid Medium Suit	100mL , 500mL	M-HGCM-01/02
		Human Endometrial Cancer Organoid Medium Suit	100mL , 500mL	M-HECCM-01/02
		Human Esophageal Cancer Organoid Medium Suit	100mL , 500mL	M-HESCM-01/02
		Human Ovarian Cancer Organoid Medium Suit	100mL , 500mL	M-HOCM-01/02
	Human Normal Tissue Organoid Kit	Human Gastric Organoid Medium Suit	100mL , 500mL	MHGM-01/02
		Human Intestinal Organoid Medium Suit	100mL , 500mL	M-HIM-01/02
		Human Colonic Organoid Medium Suit	100mL , 500mL	M-HCM-01/02
		Human Endometrial Organoid Medium Suit	100mL , 500mL	M-HECM-01/02
		Human Esophageal Organoid Medium Suit	100mL , 500mL	M-HESM-01/02
		Human Liver Ductal Organoid Medium Suit	100mL , 500mL	M-HBDM-01/02
		Human Fallopian Tube Organoid Medium Suit	100mL , 500mL	M-HFTM-01/02
	Mouse Normal Tissue Organoid Kit	Mouse Intestinal Organoid Medium Suit	100mL , 500mL	M-MIM-01/02
		Mouse Colonic Organoid Medium Suit	100mL , 500mL	M-MCM-01/02
		Mouse Gastric Organoid Medium Suit	100mL , 500mL	M-MGM-01/02
		Mouse Airway Organoid Medium Suit	100mL , 500mL	M-MAM-01/02
		Mouse Liver Ductal Organoid Medium Suit	100mL , 500mL	M-MBDM-01/02

·In addition to organoid kits, Galatek also provides a whole set of reagent consumables such as matrigel, auxiliary reagents, growth factors, small molecules specialized for organoid culture.

Galatek

Germany, Singapore,
the United States,
Japan, China
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Declaration

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