From the foot of Mt. Fuji to the WORLD

TOKAI HIT will...

Pursue the joy of inspiring our customers. Manufacture products conscientiously. Contribute to our community and society.



Tokai Hit Official character Tokai Twins Mikan & Charly

All for living cells, All for your imaging.







TOKAI HIT Co., Ltd.

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It is essential to read the instruction manual before using these devices.

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- Specifications and products in the catalog are subject to change without
- any obligation to the part of the distributor/manufacturer.

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CA-ZEGEN-EN-08



Incubation System for microscopes



Stage Top Incubator®

Offers precision temperature, humidity and CO₂ control for your cell culture on a microscope. Enables Time-Lapse Imaging of short and long term (more than 2 weeks) experiments.

Happiness for Cells, Success for Researchers RELIABILITY meets INNOVATION

With a stable cell culture environment, ease of use, support for a wide range of applications, and the ability to tailor to your work, we meet the needs of researchers.





Controller dimensions $W110 \times D208 \times H206 (mm)$

40% more compact compared to the previous version!

SUB HEATER port

Equipped with SUB Heater port as standard. Items such as External Humidifier, Tube Heater etc. can be added.

 External Humidifier
Tube Heater
Additional Lens Heater

TOP HEATER Auto-Calibration

With a single click, the optimal temperature of the TOP HEATER is determined according to your environment.

Tap Calibration	SAVELE TEMP
	CALEBATION 3600
Turn on Sample feedback	NUTHEATER T 42.
	STALE HEATER T 38.0
Automatically saves in Top Heater SV	12NE HEATEN T 37.0
	COJ 150 4-040 [IIII/100]
Calibration finish	72 B
	an 4 10 20 10

Variety of options

A wide range of add-on options, such as culture under perfusion and pressure control, are available to meet your various needs.





for ibidi u-slide

Pressure perfusion system

Accurate and uniform temperature

TOKAI HIT Heating Quality

Tokai Hit's original Top Heater is proven to distribute heat uniformly within the Chamber regardless of the type of vessel.



Uniform temperature distribution between wells and within a well.

No risk of collision with objective lens

With unique Top Heater Heating regulation, the bottom of the Chamber is accessible for a variety of objective lenses. (No metal plate on the bottom.)

Maintains high humidity

The built-in internal humidifier minimizes the change in concentration of the media by heating the distilled water of the water reservoir to maintain high humidity levels.



Internal humidifier by Bath Heater

NA: 0.55 WD: 26 mm



Real-time Sample Feedback Regulation Sterilized temperature sensors and magnetic lids make it easy to measure the temperature of the culture media for your research needs. The controller regulates the heater based on the sensor signal to keep the sample at the target temperature accurately.



Stable CO2 environment

The controller mixes 100%CO2 gas and the surrounding air automatically. Stable gas concentration inside the Chamber is kept by sending the mixed gas continuously. (%example of controller with a built-in digital gas mixer)



Stage Top Incubator[®]



All Dish Attachments and Dish Fixing Lids are included as stand Chamber STXG (For 100%CO2 gas use) STXF (For premixed gas use) Size : W110 × D208 × H206 (mm) ATX-W For well-plate ATX-A For ATX-D, ATX-CSG ATX-D For 35mm/60mm dish ATX-CSG For slide glass, chamber slide, and chambered coverglass Dish Attachments





Chamber Components



Top Heater

- Main heater which heats the specimen uniformly from above by radiation heat. The transparent glass heater prevents condensation and supports clear visibility.
- Dish Fixing Lid Easy securing of vessels with magnetic lid.
- Dish Attachment
- Supports 35mm dishes, 60mm dishes, chamber slides, slide glasses, chambered coverglasses and wellplates by changing the magnetic holder.
- Water Reservoir
- Bath Heater is embedded under the water reservoir and generates high humidity inside the chamber.
- Access Ports For temperature sensors and tubings for media exchange and drug delivery.
- Lens Heater
- Prevents the sample temperature from escaping to the objective lens. Especially effective under high magnification, oil/water immersion observation. * Possible to accommodate objectives up to ϕ 40mm. Thin type and wide type are available

----- Stable and easy securing ------

Magnetic Lid



In case the objective collides with the bottom of the dish, a spring type buffering mechanism prevents damage of the dish/objective.



Stage Top Incubator Culture Results

Туре	Name	Details	Period
Cultured Cell	STO	Embryo; fibroblast, mouse	Over 5 days
Cultured Cell	PC12	Pheochromocytoma; adrenal gland, rat (male)	Over 5 days
Cultured Cell	Hela	Adenocarcinoma; cervix, human (female, 31 years)	Over 5 days
Primary	Human Embryo	Human embryo in vitro; form fertilization to hatching blastocys	Over 7 days
Primary	Neurons	Development of rat cerebral cortical neurons	Over 4 days
Primary	Neural Stem Cells	Proliferation of neural stem cells of 14-day-old rat embryo	Over 7 days
Primary	Neural Stem Cells	Differentiation of rat neural stem cells to neurons and glial ce	Over 7 days
Primary	Hippocampal Neuron	E18 rat hippocampal neurons, cultured in CO2 incubator for the	Over 3 days
Primary	Cardiac Myocite	Neonatal rat heart, fetal mouse, heart beat synchronization	Over 3 days





Super-resolution (STED) imaging of mitochondria Courtesy of Simon Watkins and Claudette St. Croix Center for Biologic Imaging, University of Pittsburgh

Cell cycle progression in HeLa cells of N. Komatsu, A. Sakaue-Sawan and A. Miyawaki enter for Brain Science, RIKEN

A I for Living cells for your imaging ®

dard.			
	• Feedback S	Sensor	
			Model TSU-200F
	xtension wire oftware STX-AI		B cable s tube
ish Fixing Lids	Model		
	LX-W	For well-pl	ate
-	LX-D35	For 35mm	dish
0.2	LX-D56	For 60mm	dish
A second	LX-CSG		ass, chamber slide, ered coverglass





UNIV2-D35-6 For six 35mm dishes

* We also have dish attachments for three and five 35mm dishes



UNIV2-IBMS For ibidi µ-slide

* The container can be held from the side to see the entire bottom surface.



Fertilized egg development Courtesy of Dr. Kazuo Yamagata Department of Genetic Engineering, Kindai University

Stage Top Incubator[®] 57

Cooling/Heating Chamber *Cooling/Heating Chamber is not CE compliant.

Sample temperature : $15 \sim 40^{\circ}$ C (with dry lens) /20~40°C (with oil/water immersion lens)

Uniform Temperature Distribution ------

Normally, it is difficult to control the sample around room temperature because the difference between room temperature and the sample temperature is small. Since the KRi series has both cooling and heating functions independently, it can control the temperature precisely. Cooling (Sample: 20°C)

Dish Attachments

For 35mm dish Model KRiX-D35 Cooling/Heating Model ATX-D Heating only (optional) For slide glass, chamber slide, and chambered coverglas Model KRIX-CSG Cooling/Heating Heating only (optional) Model ATX-CSG * Each Dish Attachment (For Cooling/Heating) is included as standard.

Model LX-D35 (Included as standard For slide glass, chamber slide, and chambered coverglass Model LX-CSG (Included as standard)

Add-on options

We offer the suitable solutions depending on your experiments.

External Humidifier

This device decreases the frequency of refilling the internal water for more than 3 - 4 days. By using this system with the internal humidifier, it ensures stable and high humidity throughout the experiment.

< When connecting to a STX controller >

Model HUMID2ST

[Components] Bottle Heater / Water Bottle



Digital Gas Mixer

Digital Gas Mixer for the Stage Top Incubator. The model depends on which gas cylinder you use.



Model **GM-8000**

For low oxygen (Hypoxia) O2 concentration : 0.1~18.0% CO2 concentration : 5.0~20.0% Gas cylinder : 100%CO2 & 100%N2 Dimensions: W160 × D260 × H187 (mm)

*The gas (CO2/O2) concentrations listed are the gas concentrations at the controller outlet

Mini CO2 regulator

There is no need to prepare a large gas cylinder, and no regulator operation is required. The gas is supplied at the optimal flow rate for the Tokai Hit incubator.

Model MG1

[Specifications]

Output gas pressure: 0.1 MPa Usable time: about 3 days / 1 cartridge Dimensions: W135 x D182 x H237 (mm) Weight: 2.5 kg

■ Consumable gas cartridge

Consumable gas cartridge is available. Please contact LELAND with the part number: 88100Z. - Cartridge size: 74 g

- Thread design: 5/8 - 18UNF



KRIX Series

Stage Top Incubator $^{\circ}$

- For ZEISS manual/motorized stage
- With Chiller Unit
- Sample Feedback regulation
- For small vessels

For 100%CO2 gas cylinder Model STXGC-KRiX-SET

35

For premixed gas cylinder Model **STXFC-KRiX-SET**

For upright microscopes

Sample temperature : 37°C

UKX Series

- For most XY stages and fixed stage
- For small vessels 35 60 50

For 100%CO2 gas cylinder Model STXG-UKX-SET

Slide Glass

For premixed gas cylinder Model STXF-UKX-SET

Openable Top Heater -------The metal Top Heater with this function makes it easy to position the





Dish Attachment	
For 35mm dish	UKX-D35
For 50/60mm dish	UKX-D56
For slide glass	UKX-SG
*One Dish Attachment is inclu	uded as standard
	uded as standard
* One Dish Attachment is inclu • Bracket For manual stage	UKX-STD
Bracket	
Bracket For manual stage	UKX-STD
Bracket For manual stage For Narishige fixed stage	UKX-STD UKX-FNS UKX-ZD

• Lens Heater	
Lens Heater	UKX-LHD
*Lens Heater is included	as standard
• Lens Heater Optic	ons
Lens Heater Adapter	
Lens Heater Adapter Seal Ring	
	TMU-



Heating (Sample: 37°C)



for Living cells for your imaging .



Model **GM-3000**

CO₂ concentration & flow rate CO2 concentration : 1.0~20.0% Flow rate : 50~200 ml/min Gas cylinder : 100%CO2 Dimensions: W121 × D174 × H157 (mm)

* MG1 is currently only available in the US and Japan.



Add-on options

We offer suitable solutions depending on your experiments.



Stage Top Incubator

for Living cells for your imaging 🕈

	Perfusion

Enclosure for microscopes WarmingBox.

Maintains a stable cell culturing environment where the temperature fluctuation occur. By isolating the microscope from the environment, it also prevents focus drift caused by the thermal expansion of the microscope itself.

WarmingBox[®] for Axio Observer



Duct-free design

Compact design but maintains the temperature by using anti-vibration fan heaters.

WarmingBox[®] is installable without removing the TFT touch panel.

As a simple dark box

The black type has the property of light shielding and can be used as a simple dark box.

Anti-vibration heater

With anti-vibration design, the WarmingBox® can be used under confocal system.

Easy setup

Special tools are not required to install as most of the securing is done with thumb screws.



Front-clear type

This model has a transparent front panel. So you can check the inside while maintaining the temperature. LED light is installed as standard.

Built-in heaters

Anti-vibration heaters are installed on both sides of the WarmingBox[®]. They stabilizes the temperature inside the box.



Anti-vibration test video





Line-up

Microscope	Stage	Color	Heater	Model
	Motorized stage (130×100 STEP) Manual stage	Black type	With heaters	Model AXIOTB-BK
			Without heaters	Model AXIOTB-BK-NH
Axio Observer			Front-clear	With heaters
		type	Without heaters	Model AXIOTB-NH
	*Option : Special legs for LSI		80/980	Model AXIOTB-OB

* Depending on the accessories (camera, stage etc.), the model may be a customized model. Please contact us for details.

Specifications

- Box size : W850 × D395 × H250 (mm)
- Controller size: W95 × D305 × H211 (mm)
- Temperature setting range : Ambient~40°C (With heaters)



for Living cells for your imaging 🕈





The combination of Stage Top Incubator® with WarmingBox® will increase the stability of the cell culturing environment, especially when the room temperature is unstable and the microscope is near air conditioners.



Add-on options

We offer the suitable solutions depending on your experiments.



Calcium imaging captured with Cyto-cell chamber (Fura-2 Fluorescent image)



Model MC1000 Indicate temperature by 1°C or 0.1°C K-type thermocouple

Precise temperature measurement is possible by using a thin Thermo Probe



Model TSU-200FT

[Assembly]

Extension Wire *1.5 m (Sold separately) Model **HD1500**

IN/OUT Pipe for Media Exchange/Drug Delivery



For media exchange and drug delivery with incubation system for upright microscopes etc. Mode

PSBD1 Pipe OD 1.1mm **PSBD1H** Pipe OD 1.1mm (with side holes) PSBD2 Pipe OD 2.1mm **PSBD2H** Pipe OD 2.1mm (with side holes) When using the 35mm dish from Greiner and Nunc, we recommend using the Dish Spacer at the bottom of the dish.



Model 35DGN-BS For 35mm dish from Greiner and Nunc

Customization

We are accepting customization according to the application and conditions. Please feel free to contact us.

• We have experience in more than 100 customized products per year.



Hearing







Assembly

We support and design the instruments for customer's requirement with over 30 years of experience. Please let us know your needs and requirements. We can design a customized system for you. We are flexible to design for different sizes, temperature regulations, setting ranges, etc. Ex : Looking for a system for Patch clamp, system integration, unique design/size to installing to your system, etc. We value your needs and requirements. If you have any questions or concerns, please feel free to contact us.

Glass/Metal Heater for microscope Thermo Plate®

Persues high-end User-Friendliness



Glass heaters are made with strengthened hard glass and come with a 10-year free repair service for glass breakage. No more glass breakage and no more stopping your experiment. *1. Depending on the model



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Controller dimensions : $W85 \times D135 \times H30$ (mm)	
Size: 232 (cm ³) Weight: 170 (g)	
·	

without looking at the controller. The green LED lights up when the glass heater is ready.

State of LED	Condition of the plate
ON	The plate surface temp. is stable at the setting temperature.
Blinks slowly (per 1.0 sec.)	Running Calibration.
Blinks fast (per 0.2 sec.)	An error occurred.

* Plate LED is attached to some major models.

One-touch calibration

Easy calibration to set the suitable PID value in your usage environment is available with just one-touch.

* Tokai Hit's ThermoPlate® is calibrated with the controller and the plate as a set, prior to shipping, to make the center of the plate temperature be at 37.0°C when the room temperature is 25°C.



Courtesy of : Prof. Takafumi Inoue

Digital Thermometer for research







nt of Life Science and Medical Bioscience Faculty of Science and Engineering, Waseda University

35mm Dish Spacer

11



10-year free repair service for glass breakage^{*1}

Continuous Current Control

In addition to PID control, Continuous Current Control minimizes the focus drift generated by thermal expansion and also prevents light intensity change compared to the conventional ON/OFF control.





Thermo Plate[®]

Microscope: Axiovert.A1

pplicable stage : K-type frame stage

Stemi305/508

nination base : Stand K(EDU/LAB)

Glass Heater Line-up

Tokai Hit's Glass Heaters

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For various types of illumination bases

Stemi2000

Thermo Plate[®]

Temperature setting range : Ambient~60°C (* Depending on the model)

Original clear glass heater maintains stable temperature. Supports the needs in different various fields such as Time-Lapse in low magnification and/or IVF field.

> Microscope: Axio Observer / Axiovert oplicable stage : K-type frame stage

Plate size : W160 × D110 (mm)

Heating area: W128 × D84 (mm)

Glass thickness : 0.5 (mm)

Glass thickness : 1.0 (mm)

Plate size : W155 × D204 (mm)

Heating area: W120 × D150 (mm)

Axio Zoom V16, Stemi305/508

Heating area : W185 × D175 (mm)

Glass thickness : 1.5 (mm)

base : Illumination base 455137

Heating area:W113×D89 (mm)

Glass thickness : 1.0 (mm)

Plate size: ϕ 155 (mm)

Plate size : W435 × D220 (mm)

Heating area: W400 × D175 (mm)

Leg adjustment : 75~100 (mm) * Temperature setting:Ambient~50°C

n base : Transmitted Light Base 300

Glass thickness : 1.0 (mm) Plate size : W280 × D266 (mm)

Glass thickness : 0.5 (mm) Plate size: W160 × D110 (mm) Heating area: W135 × D95 (mm)

Axio Observer / Axiovert <u>ڳ</u>اڑ able stage : M-type frame stage nverted



With 10-year free repair service for glass breakage

Ŷ **For upright microscopes** cable stage : XY mechanical stage Upright Model TPi-SX 💖 🖳



Glass thickness : 0.5 (mm) Plate size : W142 × D115 (mm) Heating area: W128 × D95 (mm)

Plate size: W165×D105 (mm)

Heating area:W129×D86 (mm)

Glass thickness : 0.5 (mm)

With Plate LED Indicator

Stemi305/508 ation base : Stand M

Glass thickness : 1.0 (mm) Plate size: W272 × D227 (mm) Heating area: W230 × D190 (mm)

SteREO Discovery / Stemi2000

Ŷ ase : Stand N495052 9801 Stere

Model TPi-ST2X 💖

Glass thickness : 1.0 (mm) Plate size : W160 × D210 (mm) Heating area: W134 × D190 (mm)



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Stereo

Discovery.V12 / Lumar.V12L Dase : Exclusive illumination base

Model TPi-V12

Glass thickness : 1.0 (mm) Plate size : W423.5 × D251.5 (mm) Heating area: W300 × D150 (mm)





For various types of illumination bases

Model TPi-W Glass thickness : 1.5 (mm) Plate size : W230 × D180 (mm)

Heating area: W180×D140 (mm) TPi-WL

Plate size : W310 × D220 (mm) Heating area : W250 × D170 (mm)

Metal Heater Line-up

For oil/water immersion and high-magnification objective imaging

Temperature setting range : Ambient~60°C

Focus drift is caused by thermal expansion from the ordinary ON/OFF regulation. Tokai Hit is applying Continuous Current Control regulation as a standard to minimize focus drift.



Microscope: Axio Observer / Axiovert oplicable stage : K-type frame stage

Model TPi-SQH26FT

Plate size : W160 × D110 (mm) Hole size : ϕ 26 (mm) * Surface flat type

Axiovert.A1 Applicable stage : K-type frame stage verted



Options



Lens Heater Model TPIE-LH

Prevents heat loss of the sample especially when using oil/water immersion and high-magnification objective.

Model TPiE-TH before inserting it.



Glass thickness : 1.5 (mm)



for Living cells for your imaging *



Model TPiD-I2X

Plate size: W160 × D110 (mm) %2-in-1 type Glass: W68 × D95 (mm) Hole size : ϕ 26 (mm)



A compact barrel-type heater. Simply wrap the media tubing for heating the media



Model TPiE-SP/SPE Temperature setting range : Ambient~45°C Light-weight and thin aluminum thermal plate. TPiE-SP : W482 × D282 (mm) TPiE-SPE: W282 × D232 (mm)



Reference video : ICSI

Thermo Plate[®]

Any combination is possible.

2-channel controller (Option)

2 plates can be controlled by TPiD controller.



Entire Surface Heating Plate



TPID

Temperature control before/after observation Temperature setting range : Ambient~50°C

Since the entire surface of the plate is heated, it can maintain the temperature of the sample under observation as well as the sample before/after observation. It is very useful when handling many samples.



- Glass thickness : 0.5 (mm) Plate size : W370 × D248 (mm) Heating area : < Glass part > W128 × D95 (mm)
- Keep the vessels warm before and after observation.



By using a glass heater and a metal heater together, the temperature can be controlled uniformly over a wide surface.



KW series

BOX-type ThermoPlate[®] with a gas port.

Model **TPiD-KW** * Depending on the microscope stage, a Stage Adapter may be required.



- · For inverted microscope
- Setting temperature : Ambient~50°C (Plate temperature)
- · Top Glass Heater prevents condensation on the dish.
- Double Heater system (Top Heater/Stage Heater) maintains the suitable sample temperature.
- · Multi-well plate can be used.

ſ	- Option
	Dish Attachment for 35mm
	Model UNIV2-D35

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Cooling/Heating Plate

Best for observing yeast, plants, marine samples, cultured cell, C. elegans and/or Planarian, etc.

Temperature setting range (Plate surface) : 4~60°C

With electronic cooling element (Peltier module) and original control system, it allows responsive cooling and heating regulation.

It can be used for controlling activation of the common samples which are normally cultured at 37.0°C by lowering the temperature or observe expressions of samples at each temperature.



Microscope: Axio Observer / Axiovert series

Applicable stage : K-type frame stage



Model TP-CHSQ-C

Plate size : W160 × D110 (mm) Hole size : ϕ 20 (mm)



Microscope: For upright microscopes able stage : XY mechanical stage



Model TP-CHS-C Plate size : W110 × D110 (mm) Hole size : $\phi 20(mm)$

> Plate Built-in cooling element (Peltier element) and a flow path for circulating wate to remove the heat

Built-in dedicated chiller unit Cool the circulating water with sealed water. It can also be used for long-term observation

for Living cells for your imaging .





*Dish attachments for two to six 35mm dishes are also available.

		_ TP
37°C	Cultured Cell	SERIES
28°C	Zebrafish	
25°C	Drosophila	
20°C	C. elegans	

* The plate may build condensation at the bottom when the setting value (SV) of the controller is set below 15.0°C (depending on the lab temperature). The system may not be suitable for - Long-term imaging

- Rooms with high humidity

Applicable stage : M-type frame stage



Model TP-CHSQM-C Plate size : W165 × D105 (mm) Hole size : ϕ 20(mm)



Free demonstrations available. We will suggest Image: Series an optimal experimental set-up for Please feel free to contact us. Image: Series of the se





\sim Plug and Play \sim

Easy to regulate and set up the perfusion pressure and flowrate.

Model: MVV-BPU

Pressure setting range : $0 \sim 200$ mHg Flow rate setting range : 0.2~6.0 mL/min

Plug and Play

All you need to prepare is the specimen, vessel, and culture medium. All-in-one package, ready for your perfusion culture experiment to be started quickly and easily.

Enables perfusion culturing inside a CO₂ incubator Thanks to the moisture-proof design and shielding technology, the experimental

set-up can be installed inside a CO₂ incubator.

Biomimetic Perfusion Control

Equipped with pressure control, constant flow, and pulsatile flow modes. Data logging is possible for output pressure and flow velocity data.

Cell Culture Inserts & Perfusion Culture

Achieves micro-scale perfusion inside an incubator and on microscopes.

Model: MKSE-D24X

Flow rate setting range $: 5 \sim 1000 \,\mu\text{L/min}$

Biomimetic Perfusion Culture

The porous membrane of the culture insert serves as a scaffold for cells to adhere and proliferate in three dimensions, mimicking an environment similar to biological tissues.

Inter-Organ Network

By culturing and perfusing 3D models of different organs in two separate containers, you can construct an in vitro experimental set-up for inter-organ networks.

Compatible with Stage Top Incubator

Microfusion culture can be performed on a microscope while enabling time-lapse imaging.

Data for Academic Papers

We can provide various data such as shear stress analysis and flow visualization.



Microchip & Live-cell Imaging

Achieves micro-scale perfusion inside an incubator and on microscopes.

Model: MVV-MKS

Flow rate setting range : 0.03~40.0 µL/min

- Compatible with Stage Top Incubator Microperfusion culture can be performed on a microscope while enabling time-lapse imaging.
- Quantitative control and monitoring With the optional "Flow Rate Feedback" function, perfusion at a constant flow rate is possible regardless of the condition of the flow path.
- Enables perfusion culturing inside a CO₂ incubator The moisture-proof design and shielding technology allows the system to be installed inside a CO2 incubator.

35mm Dish Perfusion & Live-cell Imaging

Comprehensive management of Perfusion, Medium Exchange, **Drug Administration, and Mixing**

Model: PMD-D35

Flow rate setting range : $40 \sim 100 \ \mu L/min$ Drug Administration : 20 µL~, Maximum 10 mixes Medium Exchange : Maximum 10 times possible

Minimum sample temperature changes

By applying a Tube Heater, temperature changes in samples during medium exchange and perfusion are minimized.

Hands-free sample operation

Can be operated without touching the sample, ensuring a stable observation environmer

Integration with external devices

Can be integrated with external devices such as microscopes via TTL signals.

Special Vessels Available

Custom-made vessels are possible. We can accommodate a wide range of needs, from vessels for cells and tissues to organs. Autoclave sterilization specifications are also possible upon request.

Our extensive experience:

various 35mm dishes, ibidi µ-Dish, µ-Slide, Transwell, PDMS devices, ALI (air-liquid interface) culture, oxygen gradient vessels, pressure gradient vessels, well plate sealed vessels, artificial blood vessels, rat liver, kidney, lung, small intestine, and many more. Please feel free to consult with us.



















MiViVo