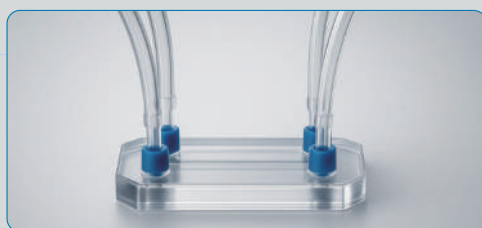


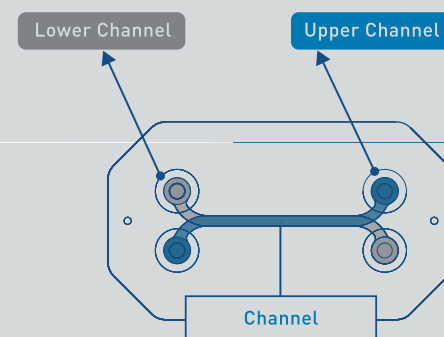
PRODUCT INFORMATION SHEET

ORGAN-ON-CHIP



For Research Use Only, Not for use in diagnostic procedures.

ORGAN-ON-CHIP CONFIGURATION



TECHNICAL FEATURES

Dimensions of the chip	20 x 35 x 49 mm
Number of channel	2 channels
Upper channel height	1 mm
Lower channel height	0.2 mm
Channel surface area	35.66 mm ²
Membrane pore size	0.4 μm
Operating temperature	4~40°C
Sterilization method	Ethylene oxide

INTRODUCTION

The Anivance AI organ-on-chip device is a precision-engineered microfluidic platform designed to support the controlled culture of living cells under physiologically relevant conditions. The chip features dual-channel architecture separated by a permeable membrane, enabling dynamic co-culture of multiple cell types while maintaining compartmentalized microenvironments. Integrated microfluidic flow pathways allow for precise regulation of shear stress, nutrient exchange, and biochemical gradients, supporting the development of tissue-specific models for research use.

Manufactured with high optical clarity and biocompatible materials, the chip is optimized for real-time imaging, quantitative analysis, and long-term culture stability. Its flexible design accommodates a range of experimental configurations, enabling researchers to study complex tissue interactions and functional responses in controlled laboratory settings.

TIMELINE



→ **Step 1**
Coating



→ **Step 2**
Cell Seeding



→ **Step 3**
Dynamic Cell Culture
Routine Culture
Continue dynamic perfusion, perform medium exchange as needed.

* Schematic

KEY FEATURES

1 Compatible with Over 10 Cell Types

The platform supports multi-organ modeling with validated cell types across lung, liver, skin, intestine, kidney, and cancer models, enabling a broad range of physiological and disease-related research applications.

2 Low Cell Input Requirement

The chip's optimized microchannel geometry minimizes cell input volume, enabling the use of primary cells, patient-derived samples.

3 Support for Compartmentalized Co-culture

The dual-channel configuration enables spatially controlled co-culture, allowing in vitro investigation of intercellular interactions and tissue interface dynamics.

4 Dynamic Perfusion with Physiological Shear Stress

Continuous medium flow via peristaltic pumping mimics physiological shear stress while maintaining stable nutrient exchange to support long-term cell viability.

5 Optimized for High-Resolution Imaging

The chip is manufactured with optically transparent, biocompatible materials, enabling high-resolution imaging and real-time monitoring throughout long-term culture studies.

6 Flexible Platform for Assay Expansion

The platform is designed to integrate with systems, including:

- Chip Holder for high-content and confocal imaging.
- Chip MPS for dynamic perfusion and long-term culture.
- Inhaled Drug Delivery System for aerosolized drug exposure.

CONTACT AND SUPPORT

For information regarding Anivance AI products, services, or technical support, please contact us through any of our official channels.

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