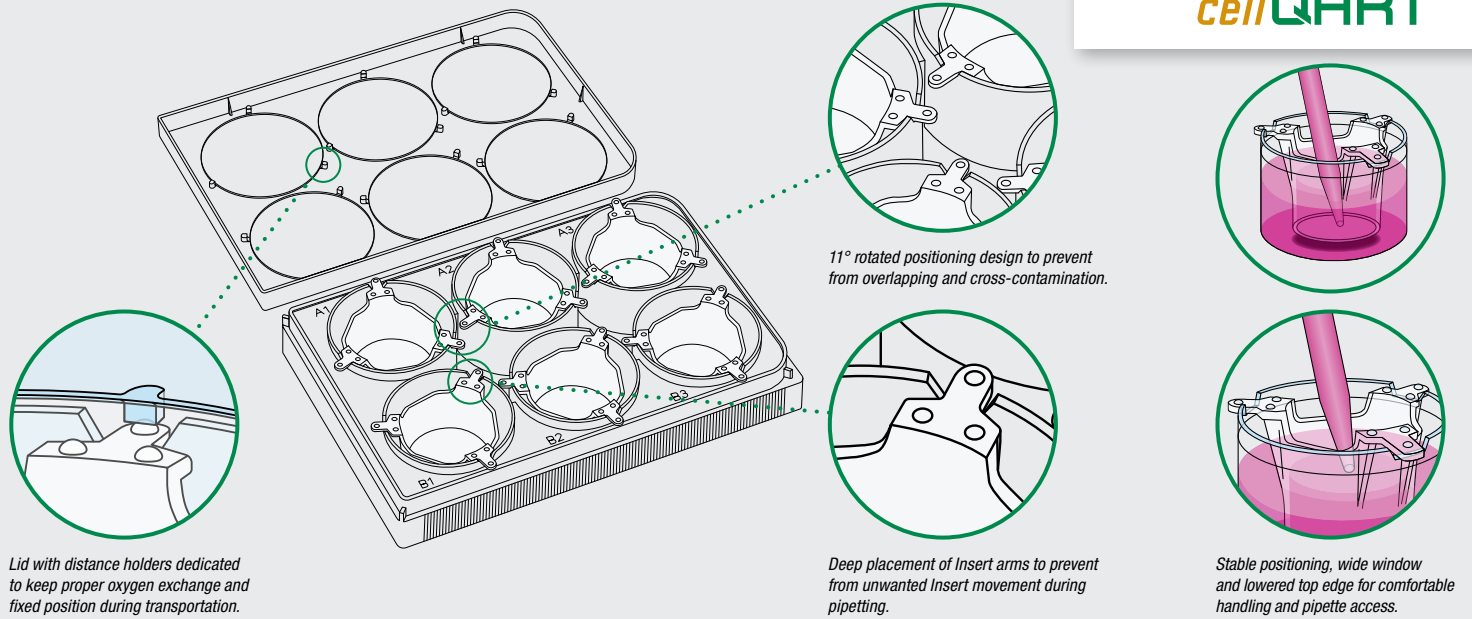


cellQART® Cell Culture Inserts pre-loaded in Well Plates

User guide

cellQART®



Lid with distance holders dedicated to keep proper oxygen exchange and fixed position during transportation.

11° rotated positioning design to prevent from overlapping and cross-contamination.

Deep placement of Insert arms to prevent from unwanted Insert movement during pipetting.

Stable positioning, wide window and lowered top edge for comfortable handling and pipette access.

Scope of application

cellQART® Cell Culture Inserts combined with our especially designed Well Plates are intended to be used for cell culture and *in vitro* tissue culture research applications.

cellQART® Well Plates are pre-loaded with cellQART® Cell Culture Inserts. Our cellQART® Cell Culture Inserts come with tissue culture treated PET membranes in translucent, clear extended culture or clear optics in 6-, 12- and 24-Well format. Well Plates and Inserts are supplied sterile.

Product dimensions

	6-Well Insert	12-Well Insert	24-Well Insert
Ø A = Inner diameter	23.9 mm	11.9 mm	6.4 mm
Ø B = Outer diameter	26.9 mm	14.9 mm	9.4 mm
↑ H = Height	16.3 mm	16.3 mm	16.3 mm
Growth area	4.5 cm ²	1.1 cm ²	0.3 cm ²
Working volume Insert	1–4 ml	0.2–0.8 ml	0.1–0.4 ml
Working volume Well	2–4 ml	0.9–1.8 ml	0.6–1.5 ml
Well Plate (with lid)	23.1 x 127.76 x 85.48 mm (H x W x D)		
Distance from Insert bottom to well bottom = 1 mm			

Materials

Membrane component:	Polyester (PET)
Plastic components:	Polystyrene (PS)

Notice

Please visit our website (www.cellQART.com) for the latest and most up-to-date information. The information provided in this document herein is subject to change at any time without notification. This document does not commit SABEU in any way. SABEU is not responsible for any errors that may appear in this document.

Product characteristics

The mutually optimized design of our Well Plates and Cell Culture Inserts offers the following benefits:

- Stable positioning of the Inserts within the wells
- Simplified pipetting by reduction of handling efforts
- Flexibility to integrate with automated workflows (e.g. 3D printing)
- Reduction of unwanted mechanical forces on cells caused by Insert shifting
- Improved TEER reproducibility by facilitating electrode positioning
- Prevention of unwanted Insert movement during transportation
- Lid with condensation rings to prevent from cross-contamination
- Optimized gas exchange by product design (lid with distance holders, Inserts with lowered top edge and embossed spots on arms)
- Compatible with most standard cell culture equipment
- RNase/DNase free and non-pyrogenic
- Industry leading quality standards to ensure 100 % membrane parameter consistency and reproducible cell culture results
- DIN EN ISO 9001, DIN EN ISO 13485 certified and ISO class 8 clean room production

User guidelines

- ✓ All products are for research use only and not intended for use in diagnostic or medical applications.
- ✓ Verify that blister, Insert & membrane are undamaged before use.
- ✓ Be careful not touching or damaging the membrane.
- ✓ Keep products away from strong acids, strong caustic solutions and organic solvents.
- ✓ All products are for single use only.

cellQART® Cell Culture Inserts pre-loaded in Well Plates

User guide

Our cellQART® Cell Culture Inserts come with tissue culture treated PET (Polyester/Polyethylene Terephthalate) membranes and are available in various optical versions:

Clear PET	Clear extended culture PET	Coming soon	Translucent PET
Clear PET membranes enable superior optical transparency for visualization of cells by using phase contrast/bright field microscopy.	Clear extended culture PET membranes have the optimal pore density to support long term cultures. These membranes allow for monitoring by using phase contrast/bright field microscopy.		Translucent PET membranes have a high pore density. This allows for maximum diffusion of materials between the Cell Culture Insert and receiver Plate.

Portfolio – Single Inserts

	Picture	Growth area	Membrane optics	Pore size	Pore density per cm ²	Item number	Quantity per box
6-Well Insert PET		4.5 cm ²	○ Translucent	0.4 µm	100 × 10 ⁶	930 04 02	48 pcs.
				1.0 µm	2 × 10 ⁶	930 10 02	
				3.0 µm	2 × 10 ⁶	930 30 02	
				5.0 µm	0.6 × 10 ⁶	930 50 02	
				8.0 µm	0.2 × 10 ⁶	930 80 02	
		4.5 cm ²	⊗ Clear	0.4 µm	4 × 10 ⁶	930 04 22	
				0.4 µm	2 × 10 ⁶	930 04 12	
				1.0 µm	2 × 10 ⁶	930 10 12	
				3.0 µm	0.6 × 10 ⁶	930 30 12	
				5.0 µm	0.6 × 10 ⁶	930 50 12	
12-Well Insert PET		1.1 cm ²	○ Translucent	0.4 µm	100 × 10 ⁶	931 04 02	48 pcs.
				1.0 µm	2 × 10 ⁶	931 10 02	
				3.0 µm	2 × 10 ⁶	931 30 02	
				5.0 µm	0.6 × 10 ⁶	931 50 02	
				8.0 µm	0.2 × 10 ⁶	931 80 02	
		1.1 cm ²	⊗ Clear	0.4 µm	4 × 10 ⁶	931 04 22	
				0.4 µm	2 × 10 ⁶	931 04 12	
				1.0 µm	2 × 10 ⁶	931 10 12	
				3.0 µm	0.6 × 10 ⁶	931 30 12	
				5.0 µm	0.6 × 10 ⁶	931 50 12	
24-Well Insert PET		0.3 cm ²	○ Translucent	0.4 µm	100 × 10 ⁶	932 04 02	48 pcs.
				1.0 µm	2 × 10 ⁶	932 10 02	
				3.0 µm	2 × 10 ⁶	932 30 02	
				5.0 µm	0.6 × 10 ⁶	932 50 02	
				8.0 µm	0.2 × 10 ⁶	932 80 02	
		0.3 cm ²	⊗ Clear	0.4 µm	4 × 10 ⁶	932 04 22	
				0.4 µm	2 × 10 ⁶	932 04 12	
				1.0 µm	2 × 10 ⁶	932 10 12	
				3.0 µm	0.6 × 10 ⁶	932 30 12	
				5.0 µm	0.6 × 10 ⁶	932 50 12	
			8.0 µm	0.1 × 10 ⁶	932 80 12		

Customizations (especially alternative membranes, e.g. further pore sizes) upon request.

Portfolio – Fully pre-loaded Well Plates

	Picture	Growth area per Insert	Membrane optics	Pore size	Pore density per cm ²	Item number	Quantity per box	
6-Well Plate		4.5 cm ²	○ Translucent	0.4 µm	100 × 10 ⁶	930 04 04	4 Well Plates 6 Inserts per Well Plate	
				1.0 µm	2 × 10 ⁶	930 10 04		
				⊗ Clear extended culture	0.4 µm	4 × 10 ⁶		930 04 24
				⊗ Clear	0.4 µm	2 × 10 ⁶		930 04 14
				1.0 µm	2 × 10 ⁶	930 10 14		
12-Well Plate			Coming soon ...					
24-Well Plate		0.3 cm ²	○ Translucent	0.4 µm	100 × 10 ⁶	932 04 04	4 Well Plates 24 Inserts per Well Plate	
				1.0 µm	2 × 10 ⁶	932 10 04		
				⊗ Clear extended culture	0.4 µm	4 × 10 ⁶		932 04 24
				⊗ Clear	0.4 µm	2 × 10 ⁶		932 04 14
				1.0 µm	2 × 10 ⁶	932 10 14		

Customizations (especially alternative membranes, e.g. further pore sizes) upon request.