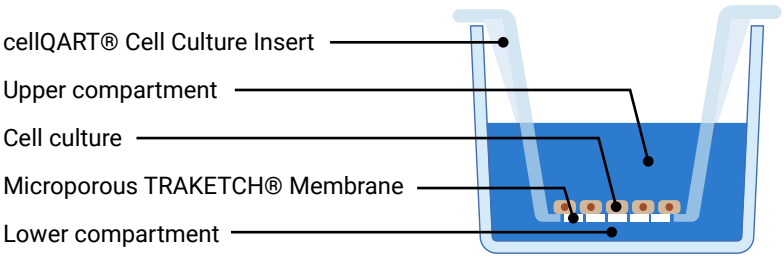
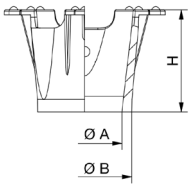
cellQART® CELL CULTURE INSERTS

cellQART® Cell Culture Inserts are produced by a true in-house OEM manufacturer, ensuring full control over a lean supply chain from production to end user. Designed to replicate in vivo-like conditions, these inserts support natural metabolic activity in polarized cells by allowing nutrient access from both the apical and basolateral sides. Available in translucent, clear extended culture or clear optics, they are offered in 6-, 12-, and 24-Well formats, with 48 inserts per pack.

The unique, self-centered hanging design of cellQART® Cell Culture Inserts prevents medium wicking between the Cell Culture Insert and outer well. The design also allows access to the lower compartment through windows in the Cell Culture Insert wall, as well as undamaged co-culturing of cells in the lower compartment.



INSERT 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 cm²	1.1 cm²	0.3 cm²
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

Compatible with most standard Cell Culture Plates.

APPLICATIONS

- Angiogenesis
- Co-culture
- Epithelial cell polarity
- Invasion
- Migration
- Tissue engineering
- Toxicity testing
- Transport and permeability studies

ADVANTAGES

- Ease of use by convenient pipette access (Patented design since 2011)
- Optimized gas exchange by product design
- Compatible to standard well-plates
- Tissue culture treated

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	Picture	Growth Area	Membrane Optics	Pore Size	Pore Density Per cm²	Membrane Thickness
6-Well Insert PET		4.5 cm²	Translucent	0.4 µm	100 × 10⁶	11.5 ± 2.0 µm
				1.0 µm	2 × 10⁶	11.0 ± 2.0 µm
				3.0 µm	2 × 10⁶	9.0 ± 2.0 µm
				5.0 µm	0.6 × 10⁶	10.5 ± 2.5 µm
				8.0 µm	0.2 × 10⁶	12.5 ± 3.0 µm
			Clear extended culture	0.4 µm	4 × 10⁶	11.5 ± 2.0 µm
			Clear	0.4 µm	2 × 10⁶	11.5 ± 2.0 µm
				1.0 µm	2 × 10⁶	11.0 ± 2.0 µm
				3.0 µm	0.6 × 10⁶	12.0 ± 2.0 µm
				5.0 µm	0.6 × 10⁶	10.5 ± 2.5 µm
				8.0 µm	0.1 × 10⁶	12.5 ± 3.0 µm
12-Well Insert PET		1.1 cm²	Translucent	0.4 µm	100 × 10⁶	11.5 ± 2.0 µm
				1.0 µm	2 × 10⁶	11.0 ± 2.0 µm
				3.0 µm	2 × 10⁶	9.0 ± 2.0 µm
				5.0 µm	0.6 × 10⁶	10.5 ± 2.5 µm
				8.0 µm	0.2 × 10⁶	12.5 ± 3.0 µm
			Clear extended culture	0.4 µm	4 × 10⁶	11.5 ± 2.0 µm
			Clear	0.4 µm	2 × 10⁶	11.5 ± 2.0 µm
				1.0 µm	2 × 10⁶	11.0 ± 2.0 µm
				3.0 µm	0.6 × 10⁶	12.0 ± 2.0 µm
				5.0 µm	0.6 × 10⁶	10.5 ± 2.5 µm
				8.0 µm	0.1 × 10⁶	12.5 ± 3.0 µm
24-Well Insert PET		0.3 cm²	Translucent	0.4 µm	100 × 10⁶	11.5 ± 2.0 µm
				1.0 µm	2 × 10⁶	11.0 ± 2.0 µm
				3.0 µm	2 × 10⁶	9.0 ± 2.0 µm
				5.0 µm	0.6 × 10⁶	10.5 ± 2.5 µm
				8.0 µm	0.2 × 10⁶	12.5 ± 3.0 µm
			Clear extended culture	0.4 µm	4 × 10⁶	11.5 ± 2.0 µm
			Clear	0.4 µm	2 × 10⁶	11.5 ± 2.0 µm
				1.0 µm	2 × 10⁶	11.0 ± 2.0 µm
				3.0 µm	0.6 × 10⁶	12.0 ± 2.0 µm
				5.0 µm	0.6 × 10⁶	10.5 ± 2.5 µm
				8.0 µm	0.1 × 10⁶	12.5 ± 3.0 µm

