

Bio-Spun™ Scaffolds

Bio-Spun™ Scaffolds are completely animal-free and engineered to replicate the body's natural extracellular matrix, offering a reliable alternative to traditional animal-derived materials often used in 3D cell culture.

They are available in a range of materials and thicknesses, and come pre-mounted in Transwell Inserts or Multiwell High-Throughput Screening (HTS) Plates—tailored for specific tissue models and diverse applications.

Polymer- Material:	PET Polyethylene Terephthalate	PU Polyurethane	PDLGA (1.0 IV) Poly(D,L-lactide-co- glycolide)	PDLGA (1.0 IV) / PLLA (1.8 IV) Bilayer Poly(D,L-lactide-co- glycolide) / Poly(L- lactic acid)
Format:				
• 6-Well Individual Inserts ¹	#IIC06-200	#IIC06-302	#IIC06-002	#IIC06-502
• 12-Well Individual Inserts ²	#IIC12-200	#IIC12-302	#IIC12-002	#IIC12-502
• 24-Well Individual Inserts ²	#IIC24-200	#IIC24-302	#IIC24-002	#IIC24-502
• 24-Well HTS Plate	#WP24-200	#WP24-302	#WP24-002	#WP24-502
• 96-Well HTS Plate	#WP96-200	#WP96-302	#WP96-002	#WP96-502
Material Properties:	non-degradable, rigid	non-degradable, flexible	biodegradable	biodegradable
Scaffold Thickness:	150µm	15-20µm	100µm	10µm
Growth pattern:	infiltrative, full- thickness models	more surface- bound, partial thickness models	more surface- bound, partial thickness models	infiltrative, full- thickness models
Potential Tissue Models:				
• Skin	X		X	X
• Airway	X		X	X
• Lung	X	X		
• Cardiac		X		
• Arterial		X		
• Intestine	X			
• Liver	X		X	X
• Gut			X	X
• Eye			X	X
• Blood/Brain Barrier		X		
• Muscle		X		
• Organoid/Spheroid	X			
Applications:				
• Cosmeceuticals	X	X	X	X
• Drug Discovery	X	X	X	X
• Tox Screening	X	X	X	X
• Cell Delivery	X			
• Microfluidics Models	X	X	X	X
• Organ-on-Chip Models	X	X	X	X
• Wound healing	X		X	X
• Tissue Regeneration			X	X

¹ 6 Inserts/Plate

² 12 Inserts/Plate

For guidance on selecting the right scaffold materials for your specific tissue model or cell culture application, or for further information on these products, please feel free to [contact us](#).



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CellSystems GmbH
Junkersring 5

53844 Troisdorf
Germany

Telefon +49.2241.25515-0
Fax +49.2241.25515-30

Mail info@cellsystems.de
Web www.cellsystems.de