

WILSONWOLF

TECHNICAL DATA SHEET



Product: G-Rex®50M Series Gas Permeable Cell Culture Products

REF (Catalog Numbers):

Usage	G-Rex®50M	G-Rex®50M-CS	G-Rex®50M-TF
GMP Sterile Fluid Path	80550	80550-CS	80550-TF
RUO Gamma Irradiated	RU80550	RU80550-CS	RU80550-TF

1) Description

The G-Rex®50M series products are single-use cell culture bioreactors designed for the expansion and recovery of mammalian cells.



G-Rex50M

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G-Rex50M-CS



G-Rex50M-TF

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Key Characteristics & Dimensions

Specification	G-Rex50M	G-Rex50M-CS	G-Rex50M-TF
Functional Use	Open System	Closed System	Closed System
Cell Growth Area (membrane)	50 cm ²		
Nominal Working Volume	500 mL		
Maximum Fluid Volume	550 mL		
Approximate Dry Weight	0.48 lbs. (216 grams)	0.63 lbs. (286 grams)	0.76 lbs. (347 grams)
Estimated Filled Weight @ Nominal Working Volume	1.58 lbs. (716 grams)	1.73 lbs. (786 grams)	1.87 lbs. (847 grams)
Maximum Product Height	6.59 inch (16.7 cm)	7.51 inch (18.2 cm)	8.34 inch (21.2 cm)
Maximum Product Diameter	5.26 inch (13.4 cm)	5.26 inch (13.4 cm)	5.26 inch (13.4 cm)
Sample Tubing Line Connection	N/A (open system)	▪ MicroClave® Connector ▪ Total Sample Line Residual Volume (~1.5 mL)	▪ MicroClave® Connector ▪ Total Sample Line Residual Volume (~1.5 mL)
Reduction Tubing Line Connection Options	N/A (open system)	▪ Female MPC ▪ Female Luer Lock ▪ Weldable PVC Tubing (0.114" ID / 0.160" OD) ▪ Weldable Tubing Length (30" / 76.2 cm)	▪ Female MPC ▪ Female Luer Lock ▪ Weldable PVC Tubing (0.114" ID / 0.160" OD) ▪ Weldable Tubing Length (30" / 76.2 cm)
Harvest Tubing Line Connection Options	N/A (open system)	▪ Male Luer Lock ▪ Female Luer lock ▪ Weldable PVC Tubing (0.114" ID / 0.160" OD) ▪ Weldable Tubing Length (30" / 76.2 cm)	▪ Male Luer Lock ▪ Female Luer lock ▪ Weldable PVC Tubing (0.114" ID / 0.160" OD)

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2) Packaging

Feature	G-Rex50M	G-Rex50M-CS	G-Rex50M-TF
Packaging Materials	PETG Tray & Retainer, Tyvek® Lid	PETG Tray & Retainer, Tyvek® Lid	PETG Tray & Retainer, Tyvek® Lid
Devices per Package	1		
Minimum Shipping Quantity	3-pack (Case)		
Shelf Life	3-Years		
Case Dimensions (Length x Width x Height)	L 19.75 in (50.2 cm) W 9.38 in (23.8 cm) H 5.88 in (14.9 cm)	L 20.5 in (52.1 cm) W 10.63 in (27.0 cm) H 5.88 in (14.9 cm)	L 19.13 in (48.6 cm) W 11.44 in (29.1 cm) H 5.50 in (14.0 cm)
Case Weight	2.98 lbs. (1.35 kg)	3.62 lbs. (1.64 kg)	3.62 lbs. (1.64 kg)
Recommended Storage Conditions	Ambient (64 - 82°F (18 to 28°C), No Humidity Controls)		

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3) Packaging Images

Individual Packaging



G-Rex50M



G-Rex50M-CS



G-Rex50M-TF

3-Pack Cases



G-Rex50M



G-Rex50M-CS



G-Rex50M-TF

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4) Other Product Information

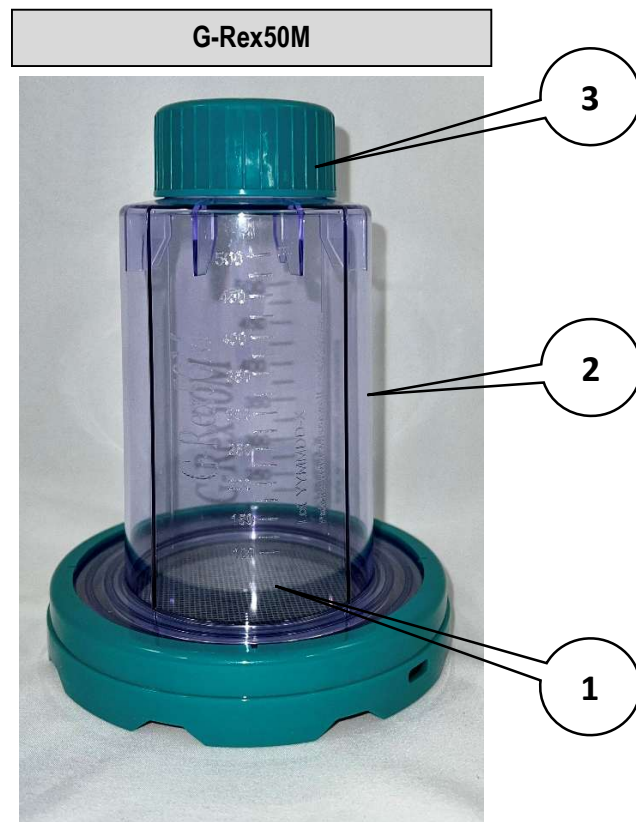
Feature	Value
Certificate of Compliance (CoC)	Provided with Every Shipment
Viral Penetration Tested (Membrane Material Only)	ASTM F1671
Microbial Ingress Tested (M-CS Model Only)	ASTM E3251
No Chemical Additives Statement	G-Rex Products Do Not Use Latex, BPA, Phthalates, Nitrosamines, Residual Solvents or Mold Release Agents in their Component Manufacturing or Final Device Assembly.
Electronic Instructions for Use (eIFU)	Visit www.wilsonwolf.com

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5) Product Materials

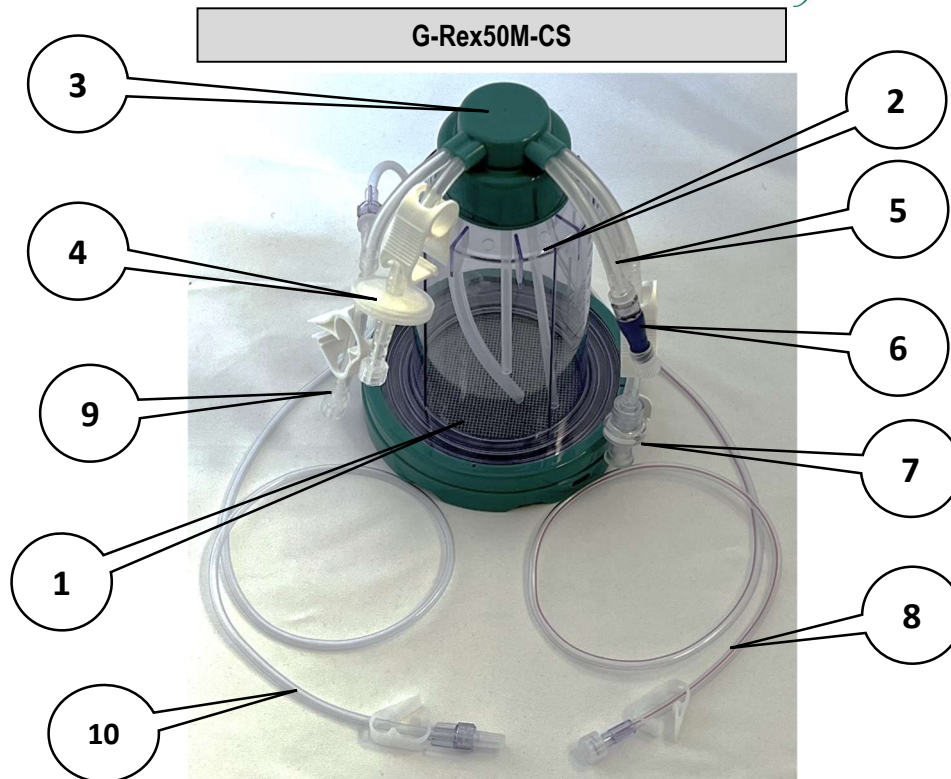


Fluid Pathway Components (Numbered)

#	Component Name	Material	Material Grade
1	Gas Permeable Membrane	Silicone Elastomer	USP Class VI, ISO 10993
2	Shell (Vessel)	Polycarbonate	USP Class VI, ISO 10993
3	Cap with Vent Filter	Cap: Polypropylene, Filter Membrane: Hydrophobic ePTFE (0.2 µm)	USP Class VI, ISO 10993

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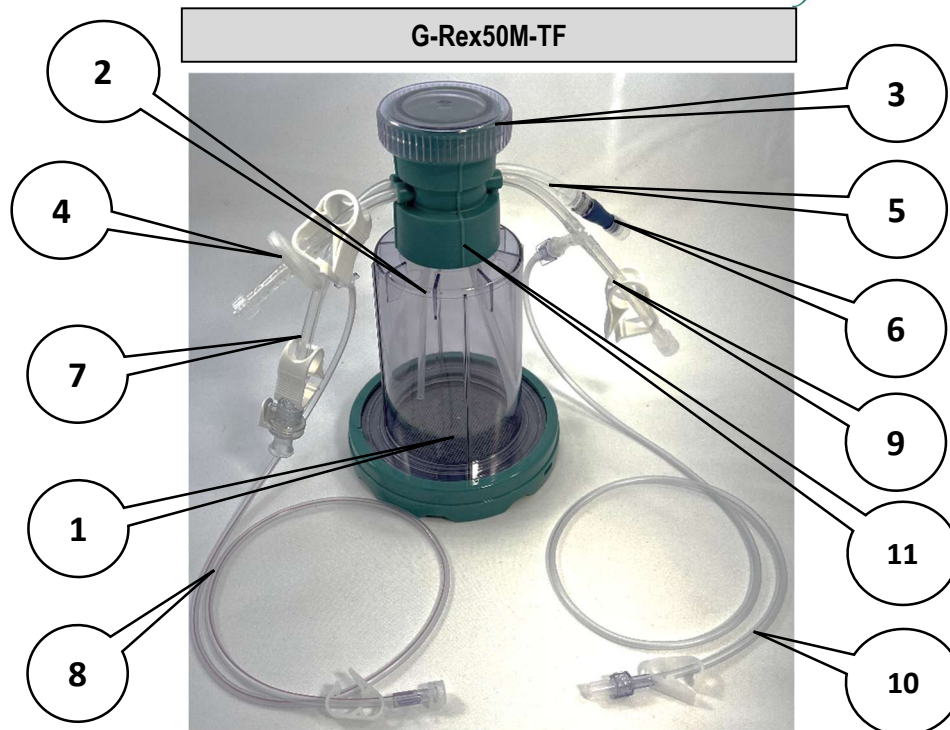


Fluid Pathway Components (Numbered)

#	Component	Material	Material Grade
1	Gas Permeable Membrane	Silicone Elastomer	USP Class VI, ISO 10993
2	Shell (Vessel)	Polycarbonate	USP Class VI, ISO 10993
3	Multi-Port Cap	Polypropylene	USP Class VI, ISO 10993
4	Sartorius Vent Filter (non-fluid pathway)	0.2 μ m, Hydrophobic, Polyethersulfone Membrane, Polypropylene Housing (Sartorius Product No. 1757G)	USP Class VI, ISO 10993
5	Sample Line Tubing	Silicone Elastomer	USP Class VI, ISO 10993
6	MicroClave® Connector	Body: Polybutylene Terephthalate (PBT), Seal: Silicone, Spike: Polycarbonate, Lubricant: Silicone.	FDA Class 2 Device USP Class VI, ISO 10993
7	Reduction Line Tubing	Silicone Elastomer	USP Class VI, ISO 10993
8	Weldable Reduction Line	Polyvinyl chloride (PVC), non-toxic, non-phthalate	USP Class VI, ISO 10993
9	Harvest Line Tubing	Silicone Elastomer	USP Class VI, ISO 10993
10	Weldable Harvest Line	Polyvinyl chloride (PVC), non-toxic, non-phthalate	USP Class VI, ISO 10993
-	Various Luer Fittings	Polycarbonate	USP Class VI, ISO 10993
-	Various Luer Caps	Polypropylene	USP Class VI, ISO 10993

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7	Reduction Line Tubing	Silicone Elastomer	USP Class VI, ISO 10993
8	Weldable Reduction Line	Polyvinyl chloride (PVC), non-toxic, non-phthalate	USP Class VI, ISO 10993
9	Harvest Line Tubing	Silicone Elastomer	USP Class VI, ISO 10993
10	Weldable Harvest Line	Polyvinyl chloride (PVC), non-toxic, non-phthalate	USP Class VI, ISO 10993
11	Tumor Sleeve	Polypropylene	USP Class VI, ISO 10993
-	Various Luer Fittings	Polycarbonate	USP Class VI, ISO 10993
-	Various Luer Caps	Polypropylene	USP Class VI, ISO 10993

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7) Regulatory / Compliance

Company Certifications	ISO 13485
OUS Product Classification	Consumable, per ISO/TS 23565:2021 Biotechnology — Bioprocessing — General requirements and considerations for equipment systems used in the manufacturing of cells for therapeutic use. And Ancillary Materials per USP <1043> Ancillary Materials for Cell, Gene, and Tissue-Engineered Products
FDA Est. Reg. # and Est. Type	3004982543, Medical Device Manufacturer
FDA Product Classification	Device Class: I Classification Name: System, Suspension, Cell Culture Product Code: KJF Regulation Number and Description: 21 CFR 864.2240 Cell and Tissue Culture Supplies and Equipment Regulation Medical Specialty: Hematology Premarket Submission Type: 510(k) Exempt
Patents	www.wilsonwolf.com/patents

8) Legal Disclaimer

Wilson Wolf Manufacturing, LLC makes no claims regarding the performance of this product for clinical treatment or therapeutic applications. It is the responsibility of the end user to assess its suitability for specific applications.