# G-Rex®6 Well & 24 Well Cell Culture Devices

*Specifications and Recommendations for Use*


**Item: 80240M G-Rex6 Well Plate**

Individual well specifications

- 10 $cm^2$ gas permeable surface area
- 4 cm liquid height
- 35mL liquid capacity
- Inoculated with $5x10^6$ cells
- Potential expansion to ~3 to $4x10^8$ cells

**Item: 80192M G-Rex24 Well Plate**

Individual well specifications

- 2 $cm^2$ gas permeable surface area
- 4 cm liquid height
- 7mL liquid capacity
- Inoculated with $1x10^6$ cells
- Potential expansion to ~6 to $8x10^7$ cells

G-Rex multi-well technology is ideal for non-adherent cells. It is designed to allow cells to have virtually unlimited oxygen and nutrient access on demand. Cells reside on a gas permeable bottom of each well, with direct access to oxygen. Additionally, the large media capacity of each well provides an abundant source of nutrients for expansion without the need for frequent media exchange. Compared to traditional multi-well plates, advantages of the G-Rex multi-well plates include:

- Cell expansion is no longer restricted by the rate of oxygen diffusion through culture media
- Nutrient availability is uncoupled from oxygen delivery leading up to 100 fold cell expansion in less time with less manipulations
- With wells full of media, cells can expand from as few as 500,000 per $cm^2$ to as many as $40x10^6$ per $cm^2$
- Fresh media is only required every 4-5 days, not on a daily or every other day schedule, as with traditional plates

These devices have a *spill-resistant collar* at the top of each well to allow for easy movement between the hood and incubator. However, care should be taken to prevent media from going above this collar when pipetting the contents of each well.

**Please contact Argos for advice about your particular culture application.**

***Thank you for evaluating this Argos "Research & Development" product. While we are confident you will be pleased with its performance, please note that it may be subject to periodic changes resulting from feedback received from users like you. Despite this designation as "R&D", these products have been manufactured and sterilized under conditions consistent with the requirements of an FDA Class I Medical Device. We look forward to working with you, and appreciate any feedback that can help us meet your needs and continually improve our product line. Please feel free to contact Jim Dahl at 800-886-8675 x109 or jdahl@argos-tech.com with any questions, concerns, or comments regarding this product.***

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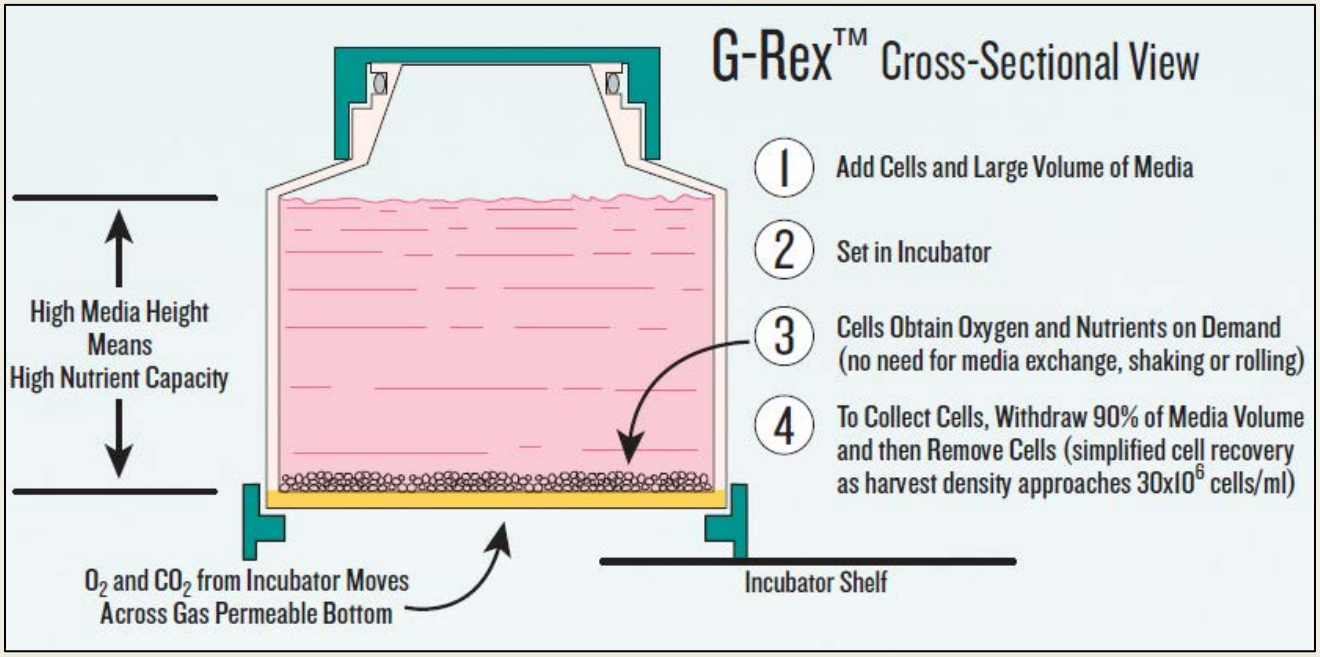
**Argos Technologies *invents, designs, and manufactures superior cell culture devices,* leading to the next great advancement in cell culture processing. The platform (G-Rex) technology is based on a gas permeable rapid expansion cell culture membrane that overcomes the limits of traditional plates, flasks and bags. Cells reside on highly gas permeable surfaces within large media volumes for extended nutrient delivery. No added labor, pumps, mixing, or shaking is required for cells to receive an unlimited supply of oxygen and nutrients on demand**.




- ***No special capital equipment***
- ***Single use, disposable devices***
- ***High density culture***
- ***Improved access to $O_2$ & nutrients***
- ***Shortened culture durations***
- ***Reduced interventions & risk***
- ***Reduced labor – no weekend duty***
- ***>10 fold cost savings vs bags***
- ***Directly scalable platform***
- ***FDA registered Class I Device***
- ***Widespread application***
- ***Simplified process***

## *Designed for large-scale cell therapy manufacturing needs*

***Significant facility cost savings compared to conventional bioreactors**

***High density culture: 20 – 40 million cells/$cm^2$; cell harvest 2 – 4 x $10^7$/mL**

***Up to 400 fold T cell expansion in 10 days or less (2000+ fold expansion when using large feeder cell ratio)**

***Benchtop to commercial production**

## *Adoptive immunotherapy applications include T cell, CAR-T, TIL, NK, CIK, Treg, etc.*

****Widespread acceptance, e.g., Baylor College of Medicine, MD Anderson, National Cancer Institute, Seattle Children's Hospital, Memorial Sloan Kettering, etc.***

*"The Cell Processing Lab has shown that the culture of Tumor Infiltrating Lymphocytes (TIL), Natural Killer (NK) cells and LCL cells when using the G-Rex flasks are superior to growth in bags. G-Rex flasks allow for cell growth at higher densities and therefore less media, growth factors, cytokine and serum additives are required. The NIH protocols to use these flasks are Institutional Review Board (IRB) approved and in the case of INDs, has been approved by the US Food and Drug Administration for treatment of human subjects…"*

*National Institutes for Health, Clinical Center*