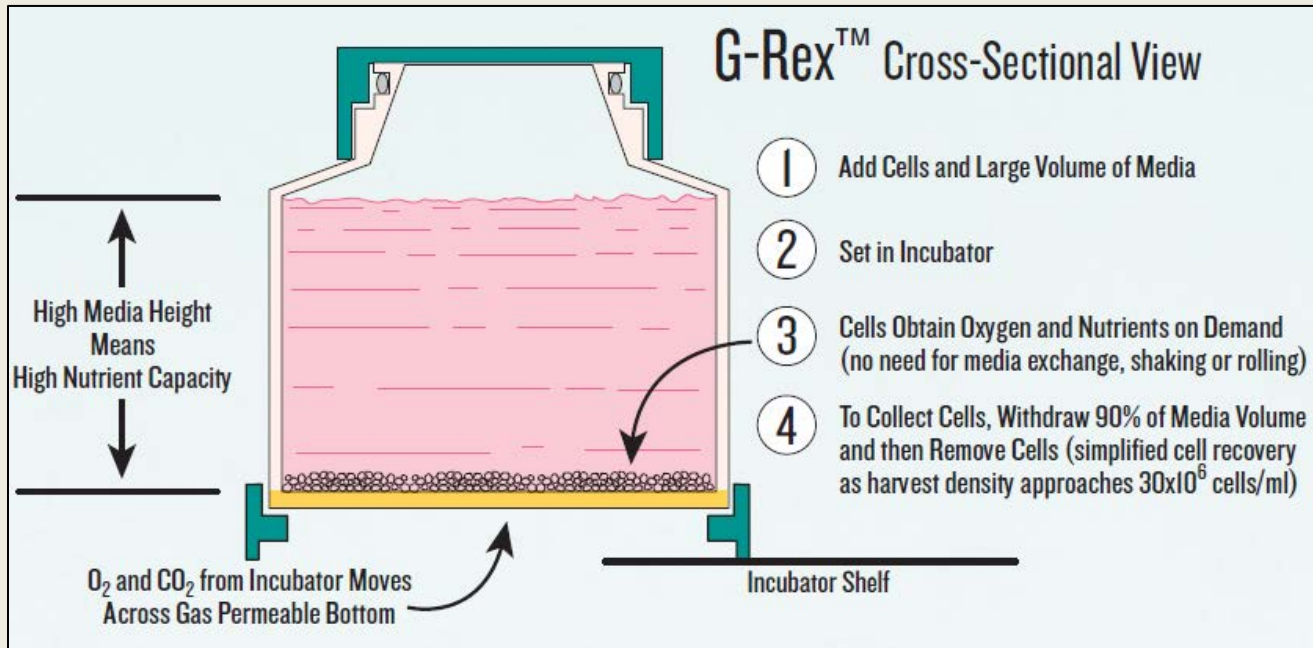


Wilson Wolf Corp. *invents, designs, and manufactures superior cell culture devices*, leading to the next great advancement in cell culture processing. The platform (G-Rex) technology is based on a gas permeable rapid expansion cell culture membrane that overcomes the limits of traditional plates, flasks 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<sup>2</sup>; cell harvest 2 – 4 x 10<sup>7</sup>/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



**G-Rex24 Well Plate** (80192): 48cm<sup>2</sup> gas permeable membrane surface area with a 192mL total liquid capacity.

**G-Rex6 Well Plate** (80240): 60cm<sup>2</sup> gas permeable membrane surface area with a 240mL total liquid capacity.

**G-Rex10 Gas Permeable Cell Culture Device** (80040S): FDA registered medical device. 10cm<sup>2</sup> gas permeable membrane surface area with a 40mL total liquid capacity.

**G-Rex10M Gas Permeable Cell Culture Device** (80110S): 10cm<sup>2</sup> gas permeable membrane surface area with a 110mL total liquid capacity. *(Closed system compatible)*

**G-Rex100 Gas Permeable Cell Culture Device** (80500S): FDA registered medical device. 100cm<sup>2</sup> gas permeable membrane surface area with a 450mL liquid capacity.

**G-Rex100M Gas Permeable Cell Culture Device** (81100S): FDA registered medical device. 100cm<sup>2</sup> gas permeable membrane surface area with a 1100mL liquid capacity. *(Closed system compatible)*

**G-Rex500M Gas Permeable Cell Culture Device** (85500S): 500cm<sup>2</sup> gas permeable membrane surface area with a 5500mL liquid capacity. *(Closed system compatible)*