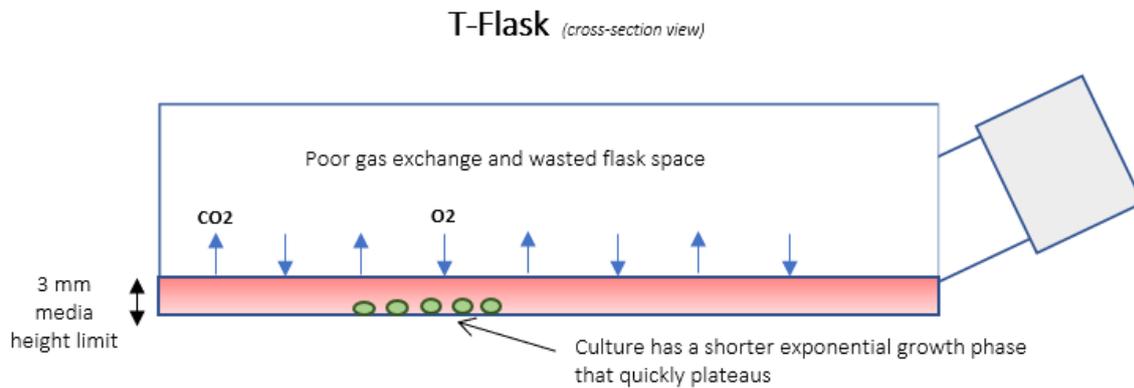


Suspension Cell Culture in G-Rex[®] Plates and EZ Flask

Hybridomas, CHO, B-Cells, Jurkat, THP-1 etc...

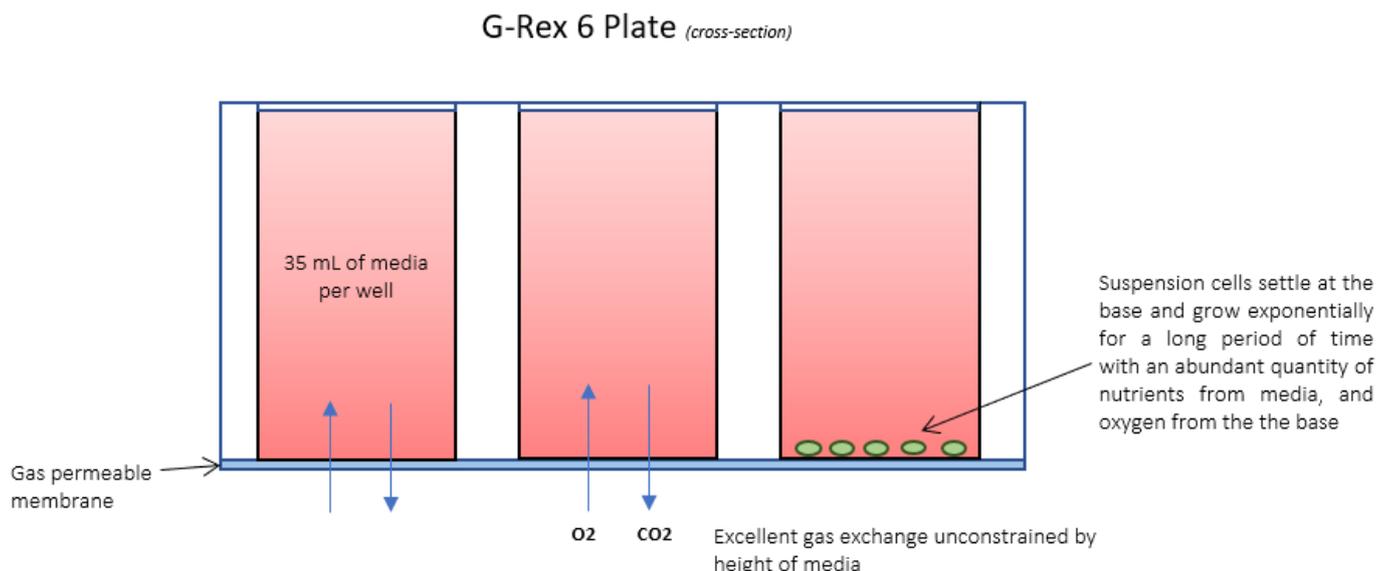
T-Flasks are not optimally designed for suspension cell culture



Adequate gas exchange in T-Flasks is ensured by applying a height limit of 3mm for media. This means that T-Flasks hold a very low amount of media relative to the total space they take up in an incubator. Also, regular cell passaging is required.

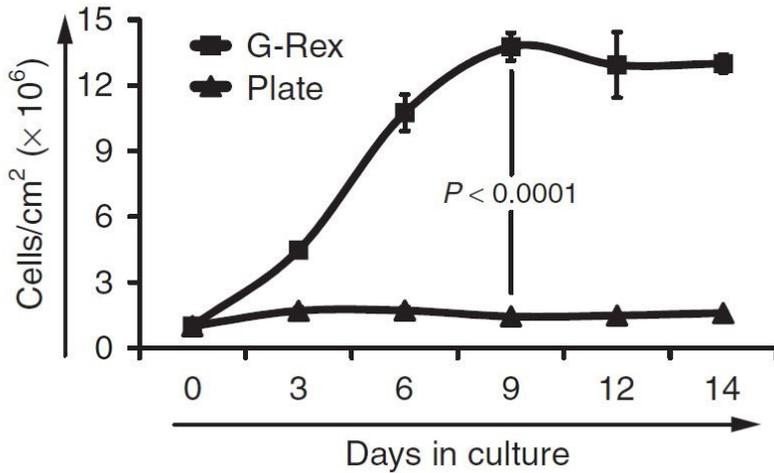
Improved gas exchange resolves the media height problem

There is no height restriction on media added to cells in a G-Rex Plate or EZ Flask because gas exchange takes place across a base membrane that is permeable to oxygen and carbon dioxide. Cells remain fully oxygenated at all times.



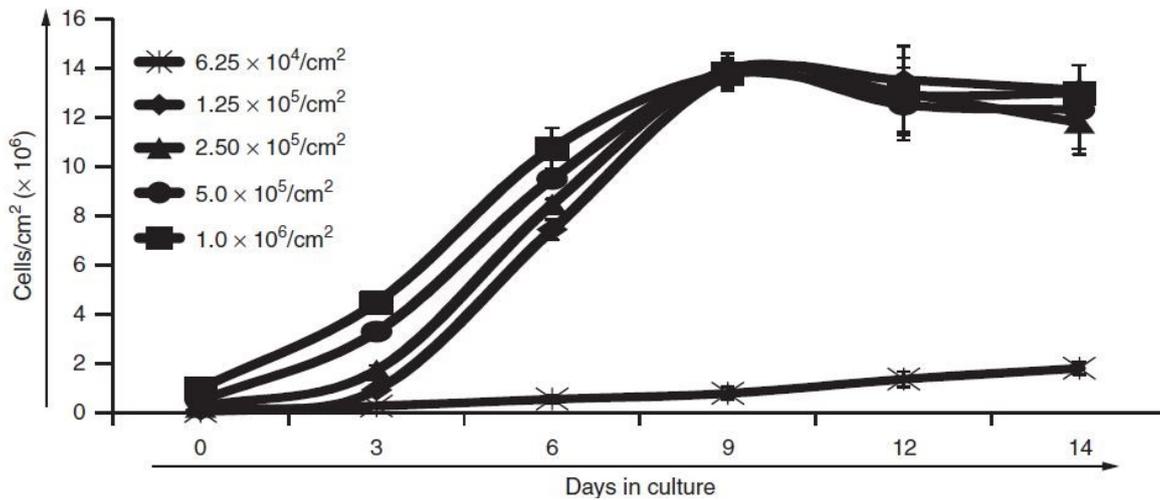
Following inoculation, suspension cells settle above the base gas exchange membrane. A very efficient and constant transfer of O₂ and CO₂ enables cell densities to rapidly go much higher than in T-Flasks without the need for passaging or other user interventions. In G-Rex Plates and in EZ Flasks cells can grow exponentially over a period of days limited only by the type and amount of media used. These devices provide a very convenient means to generate large numbers of hybridomas, for example, and to produce a significant small batch quantity of high titer monoclonal antibody. With a good clone, the 1 Litre EZ-Flask might produce around 150mg of monoclonal antibody, for example, with no user cell culture interventions apart from filling, inoculation and the final harvest.

G-Rex supports higher cell number per surface area compared to a standard culture plate :

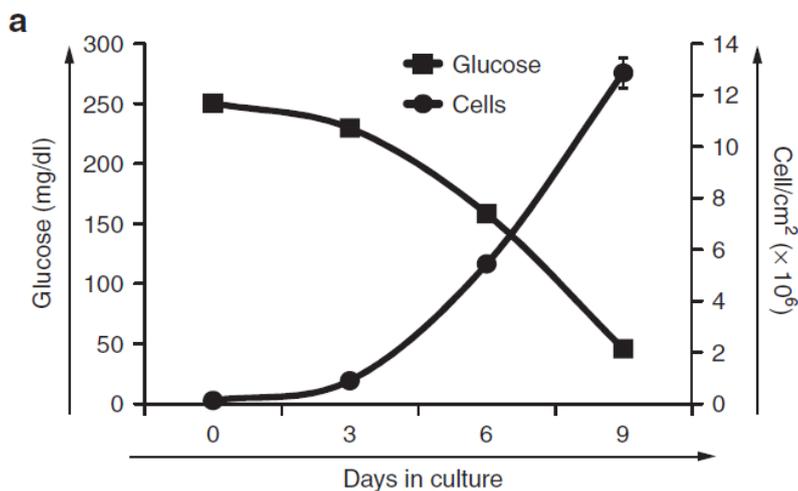


Data were generated using K562 line in a G-Rex device specific for CAR-T therapy (10ml volume per cm² membrane).

G-Rex requires a minimum density of cells seeded per cm² in order for expansion to occur



Glucose consumption correlates inversely with cell numbers



Data were generated using K562 line in a G-Rex device specific for CAR-T therapy (10ml volume per cm² membrane).

Products available for R&D use N.B. KDBIO does not supply for T-Cell therapy related applications

Product Description	Wells per device	Membrane Area	Volume (per well)	Minimum Inoculum
G-Rex 6 Plate	6	10 cm ²	35ml	1E6
G-Rex 24 Plate	24	2 cm ²	7ml	1E5
EZ Flask 1 Litre	1	200cm ²	1000 ml	1E7



Grow up to 2 billion cells
in 1 Litre



Grow up to 200 million cells
per 35ml well



Grow up to 40 million cells
per 7ml well

EZ Flask and G-Rex Plates are manufactured by Wilson Wolf (USA)

Stocked and distributed by KDBIO in Europe

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