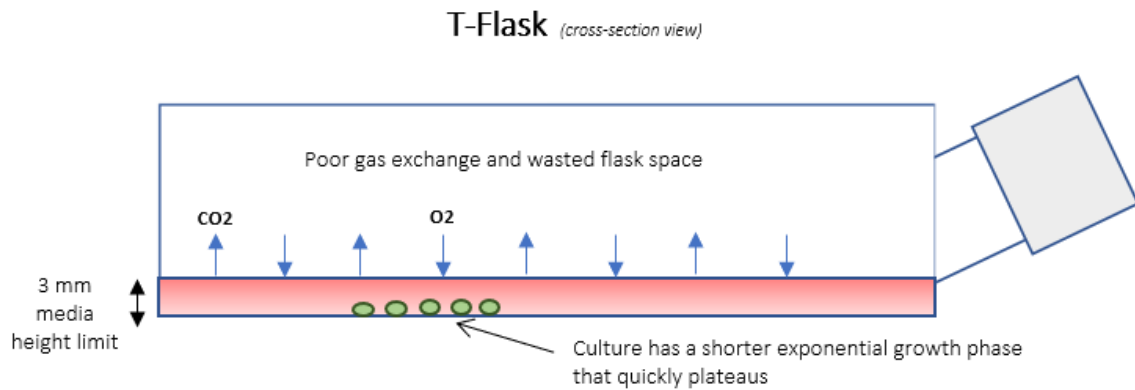


Suspension Cell Culture in G-Rex® Plates

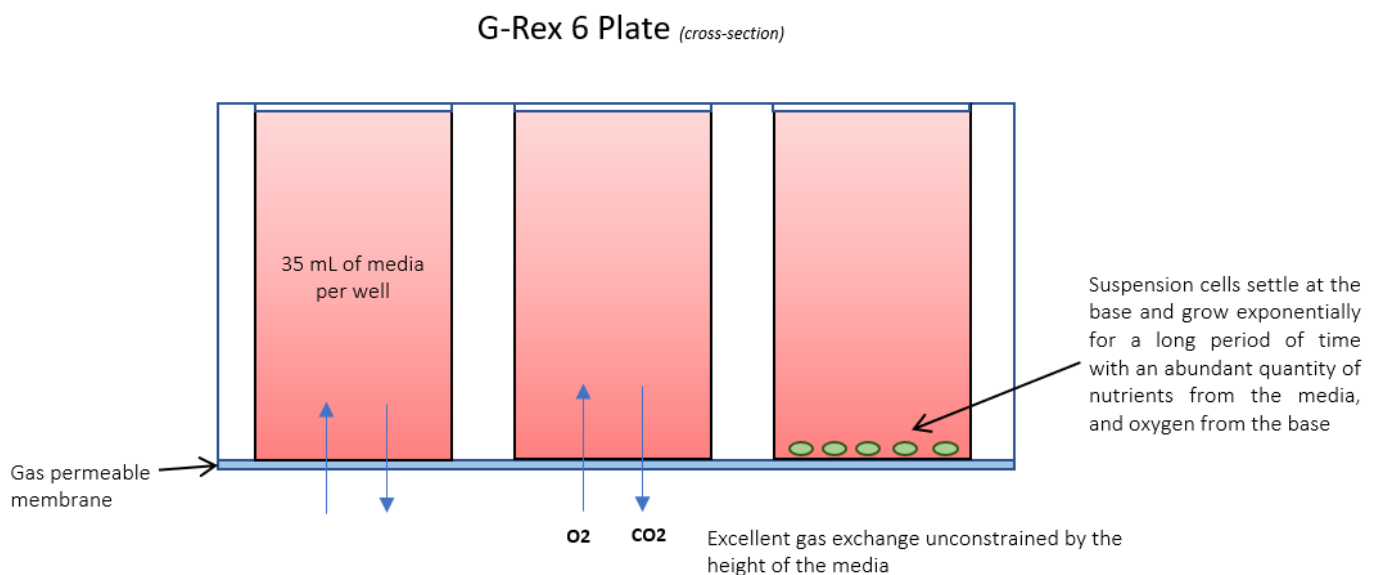
T-Flasks are not optimally designed for suspension cell culture



Adequate gas exchange in T-Flasks can only be ensured by applying a media height limit of 3mm. This means that T-Flasks can only hold a very low amount of media relative to the total space they take up and, of course, regular cell passaging is needed.

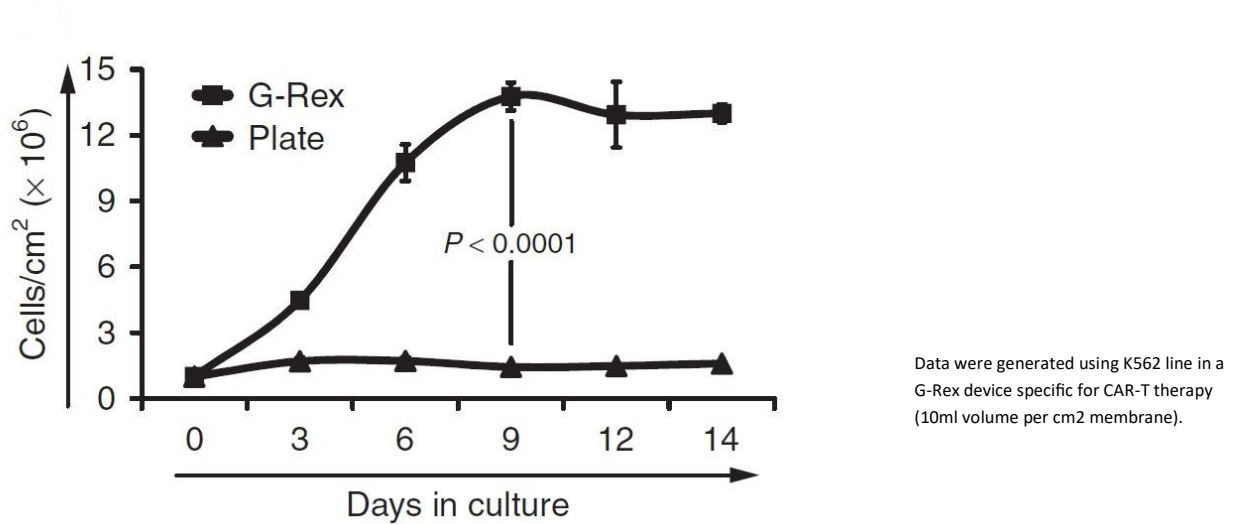
Improved gas exchange resolves the media height problem

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

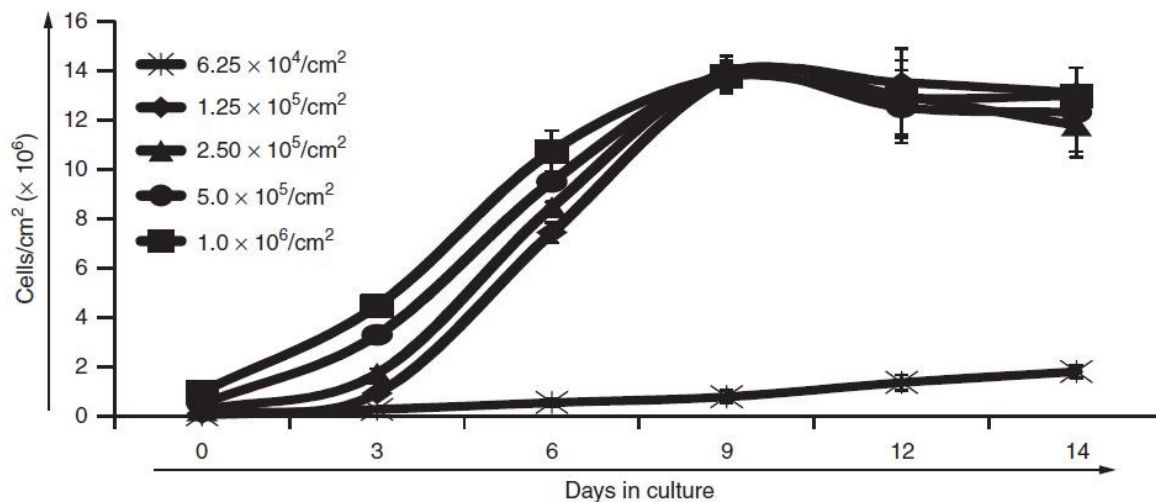


Following inoculation, suspension cells settle above the base gas exchange membrane. A very efficient and constant transfer of O₂ and CO₂ enables cell densities to rapidly go much higher than in T-Flasks without the need for passaging or other user interventions. In G-Rex Plates cells can grow exponentially 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 suspension cells.

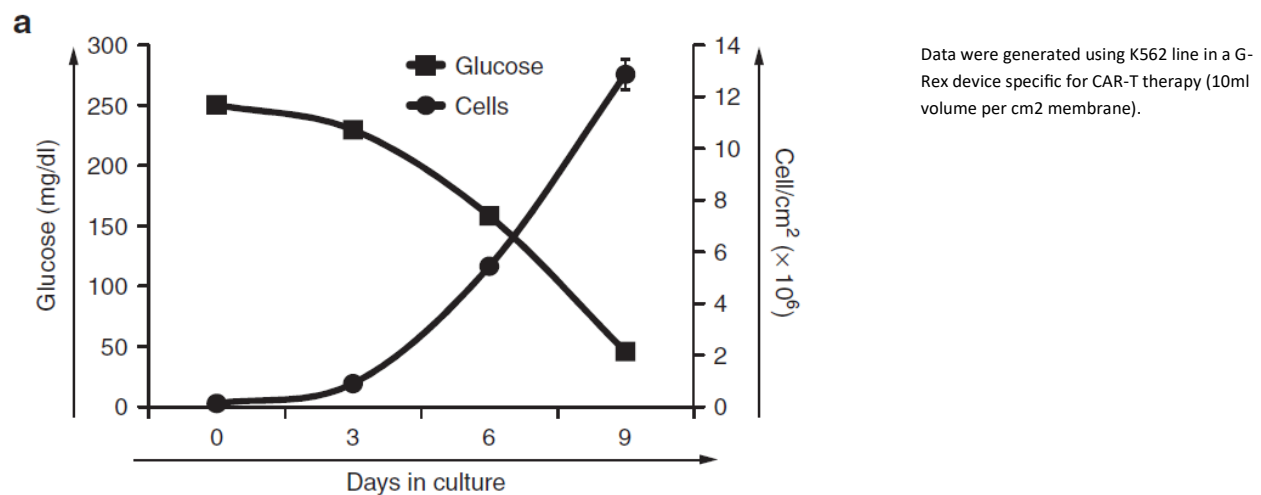
G-Rex® supports higher cell number per surface area compared to a standard culture plate :



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 shown is from this publication (2014) : <https://www.sciencedirect.com/science/article/pii/S2329050116300808>

Grow up to 400 million cells
per 100 ml well



Grow up to 200 million cells
per 35ml well



Grow up to 40 million cells
per 7ml well



Products available for R&D use

Product Description	Wells per device	Membrane Area	Volume (per well)	Minimum Inoculum (total cells)
G-Rex® 6 Plate	6	10 cm ²	35ml	1E6
G-Rex® 24 Plate	24	2 cm ²	7ml	1E5
G-Rex® 6M Plate	6	10 cm ²	100ml	1E6
G-Rex® Bioreactors	Enquire			

G-Rex® products are manufactured by Wilson Wolf (USA)

Stocked and distributed by KDBIO in Europe

KDBIO S.A.S.

+33-388-261-286 or +44-5-603-854-110

sales@kdbio.com www.kdbio.com

