

**GrowDex<sup>®</sup> GrowDex-T<sup>®</sup>**

**QUICK GUIDE**

[www.growdex.com/support](http://www.growdex.com/support)



$$\text{Volume of stock} = \frac{\text{Final volume of assay} \times \text{required hydrogel concentration (\%)}}{\text{Hydrogel stock concentration (\%)}}$$

$$\text{Volume of culture media} = \text{Final volume of assay} - \text{Volume of stock hydrogel} - \text{Volume of cell suspension}$$

**GrowDex® calculator**  
[www.growdex.com/support](http://www.growdex.com/support)



## GrowDex®

Final GrowDex concentration	Volume of GrowDex stock solution (1.5 %)	Volume of diluent	Volume of cell suspension	Total volume
1.0 %	800 µl	300 µl	100 µl	1200 µl
0.8 %	600 µl	425 µl	100 µl	1125 µl
0.5 %	400 µl	700 µl	100 µl	1200 µl
0.2 %	200 µl	1200 µl	100 µl	1500 µl

## GrowDex-T®

Final GrowDex-T concentration	Volume of GrowDex-T stock solution (1.0 %)	Volume of diluent	Volume of cell suspension	Total volume
0.8 %	800 µl	100 µl	100 µl	1000 µl
0.6 %	600 µl	300 µl	100 µl	1000 µl
0.4 %	400 µl	500 µl	100 µl	1000 µl
0.2 %	200 µl	700 µl	100 µl	1000 µl

- 1.** Calculate at [www.growdex.com/support](http://www.growdex.com/support) or manually the needed volumes of hydrogel, medium and cell suspension



- 2.** Pipette the medium into the vessel of choice. Low adhesion pipette tips and tubes are recommended



- 3.** Before removing the cap from the syringe, gently move the plunger back and forth to release it



- 4.** Dispense the hydrogel to the medium



- 5.** Swirl the hydrogel mixture gently with the pipette tip



- 6.** Gently pipette the hydrogel mixture up and down for a minimum of 90 seconds and try to avoid air bubbles



- 7.** Detach the cells and prepare the cell suspension. Add the cells slowly and mix gently to avoid the air bubbles from forming



- 8.** Dispense the hydrogel-cell mixture to the wells



- 9.** Carefully add or exchange the medium on the top of the hydrogel-cell mixture against the wall of the well



GrowDex®

GrowDex-T®