




# Large-Scale Production of Size-Adjusted $\beta$ -Cell Spheroids in a Fully Controlled Stirred-Tank Reactor

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**Table S1.** Summary of stirrer properties and the resulting bioreactor geometry including the ratios for swept volume  $V_S$  and working volume  $V_L$ , stirrer height  $h_s$  and stirrer diameter  $d_s$  or tank diameter  $D_T$ , as well as the bottom clearance  $C_B = h_{s,bottom}/d_s$  ( $h_{s,bottom}$  = installation height of stirrer from the bottom).

Stirrer type	30°-3-SPB	45°-3-SPB	Rushton
Image			
Number of blades [-]	3	3	6
Blade angle [°]	30	45	90
Diameter $d_s$ [m]	0.065	0.065	0.054
Height $h_s$ [m]	0.035	0.052	0.011
Flow pattern	axial (down)	axial/radial (down)	radial
Power number $N_P$ [-]	1.1	2.4	4.0
$V_S/V_L$ [-]:	0.11	0.17	0.03
$h_s/d_s$ [-]:	0.5	0.8	0.2
$d_s/D_T$ [-]:	0.6	0.6	0.5
$C_B$ [-]:	0.7	0.7	0.8