

Table 3. Cell Concentrations in Fibrous-Bed Bioreactors

reactor	immobilized cells			suspended free cells			total cells	
	density (g/g of fiber)	total fiber (g)	total (g)	concn (g/L)	liq volume (mL)	total (g)	total amt (g)	concn, [X _{tot}] ^a (g/L)
1	0.69	27	18.63	7.8	230	1.8	20.4	68.0
2	0.68	18	12.24	7.5	310	2.3	14.6	47.1
3	0.69	21	14.5	7.5	280	2.1	16.6	55.3

^a [X_{tot}], total cell concentration in the bioreactor based on a reactor working volume of ~300 mL.