

Table 1

Results of cellular volume determination by different methods.

Methods	V_{total} ($\mu\text{L}\cdot\text{mg}^{-1}$)	V_{ex} ($\mu\text{L}\cdot\text{mg}^{-1}$)	V_{in} ($\mu\text{L}\cdot\text{mg}^{-1}$)	References
Concentration-dependent method	5.5 ^a	3.6	1.9	This work
General assumption	–	–	2.3	(Bennett, et al., 2008)
Optical method	–	–	3.6	(Loferer-Krossbacher, et al., 1998)
Altered gravimetric method	6.1 ^b	3.6	2.5 ^c	This work

^a V_{total} was calculated using experimental data V_{in} and V_{ex} . ^b V_{total} was determined gravimetrically upon the cell pellets being dried by lyophilization. ^c V_{in} was calculated using experimental data V_{total} and V_{ex} .