

Table 2. Volumetric measurement of *S. cerevisiae* cells and cell components

Cell/organelles	G1 phase				Early G1 phase				Difference between A and B : <i>P</i> -value by <i>t</i> -test
	Cell 1	Cell 2	Cell 3	Mean ± SD (A)	Cell 4	Cell 5	Cell 6	Mean ± SD (B)	
Cell	15.9 ^a (100) ^b	20.7 (100)	14.8 (100)	17.1 ± 3.1 (100 ± 0)	13.4 (100)	8.9 (100)	17.5 (100)	13.3 ± 4.3 (100 ± 0)	>0.05 (-)
Cell wall	2.3 (15)	3.5 (17)	2.9 (19)	2.9 ± 0.6 (17 ± 2)	2.2 (16)	1.9 (22)	3.0 (17)	2.4 ± 0.6 (18 ± 3)	>0.05 (>0.05)
Nucleus	1.8 (11.5)	2.2 (10.5)	1.4 (9.5)	1.8 ± 0.4 (10.5 ± 1.0)	1.3 (9.8)	0.9 (9.9)	1.6 (9.4)	1.3 ± 0.4 (9.7 ± 0.3)	>0.05 (>0.05)
Nucleolus	0.43 (23.5) ^c	0.49 (22.3)	0.29 (20.5)	0.40 ± 0.10 (22.1 ± 1.5)	0.17 (13.1)	0.06 (7.1)	0.44 (26.8)	0.22 ± 0.19 (15.7 ± 10.1)	>0.05 (>0.05)
Mitochondria	0.32 (2.0)	0.27 (1.3)	0.27 (1.8)	0.28 ± 0.03 (1.7 ± 0.4)	0.12 (1.0)	0.18 (2.1)	0.20 (1.1)	0.17 ± 0.04 (1.4 ± 0.6)	<0.05 (<i>t</i> = 4.13) (>0.05)
ERs/Golgi apparatus	0.16 (1.0)	0.07 (0.4)	0.13 (0.9)	0.12 ± 0.04 (0.7 ± 0.3)	0.07 (0.5)	0.04 (0.4)	0.06 (0.4)	0.06 ± 0.02 (0.5 ± 0.1)	>0.05 (>0.05)
Vacuoles	1.05 (6.6)	1.24 (6.0)	0.69 (4.7)	0.99 ± 0.28 (5.8 ± 1.0)	0.12 (1.0)	0.07 (0.8)	0.88 (5.0)	0.36 ± 0.45 (2.2 ± 2.4)	>0.05 (>0.05)
Autophagosomes	0 (0)	0 (0)	0.01 (0.08)	0.004 ± 0.007 (0.03 ± 0.05)	0.003 (0.02)	0.001 (0.006)	0.02 (0.09)	0.006 ± 0.008 (0.04 ± 0.04)	>0.05 (>0.05)
Multivesicular bodies	0 (0)	0.02 (0.11)	0 (0)	0.008 ± 0.014 (0.04 ± 0.06)	0 (0)	0 (0)	0 (0)	0 ± 0 (0 ± 0)	>0.05 (>0.05)
Cytosol	10.2 ^d (64)	13.5 (65)	9.4 (64)	11.0 ± 2.2 (64 ± 1)	9.6 (72)	5.8 (65)	11.7 (67)	9.0 ± 3.0 (68 ± 3)	>0.05 (>0.05)

^aVolumes were measured in μm^3 .

^bValues between parentheses are percentages of cell volume.

^cValues between square brackets are percentages of nuclear volume.

^dThe volume of cytosol includes the volume of ribosomes, small vesicles, filaments and virus-like particles.