

Table 1. Estimates of volume and surface density of endoplasmic reticulum (per unit cytoplasmic volume), and of surface density of outer and inner mitochondrial membranes (per unit mitochondrial volume) at different magnifications. Mean \pm 1 SE of four sections.

Final magnification	$V_V(\text{er, cy})$	$S_V(\text{er, cy})$ ($\mu\text{m}^2/\mu\text{m}^3$)	$S_V(\text{omi, mi})$ ($\mu\text{m}^2/\mu\text{m}^3$)	$S_V(\text{imi, mi})$ ($\mu\text{m}^2/\mu\text{m}^3$)
$\times 18,000$	0.051 ± 0.002	2.40 ± 0.20	6.16 ± 0.23	8.40 ± 0.67
$\times 38,000$	0.064 ± 0.006	4.26 ± 0.40	6.70 ± 0.17	15.92 ± 0.33
$\times 78,000$	0.120 ± 0.006	7.05 ± 0.28	6.71 ± 0.21	18.92 ± 1.70
$\times 99,000$	0.148 ± 0.011	7.99 ± 0.13	7.23 ± 0.10	23.81 ± 1.46
$\times 130,000$	0.167 ± 0.008	10.37 ± 0.50	7.49 ± 0.27	25.43 ± 0.85
$\times 172,000$	0.151 ± 0.003	10.15 ± 0.71	7.02 ± 0.33	23.56 ± 0.72