

**Table 1.** Cell size, volume of cytoplasm and vacuoles in root cap and cortex

Component	Root cap	Cortex (distance from the tip in mm)			
		0–0.5	3–4	5–6	7–8
<b>Cell size</b>					
length ( $\mu\text{m}$ )	$29.0 \pm 0.6$	$11.3 \pm 0.3$	$21.5 \pm 0.2$	$57.2 \pm 0.6$	$74.0 \pm 0.6$
diameter axes ( $\mu\text{m}$ )	$16.5 \pm 0.3$ $11.7 \pm 0.2$	$15.5 \pm 0.4$	$24.6 \pm 0.4$	$28.2 \pm 0.2$	$28.1 \pm 0.4$
approx. volume ( $\mu\text{m}^3$ )	$\sim 4,478$	$\sim 2,093$	$\sim 10,212$	$\sim 35,588$	$\sim 45,510$
<b>Cytoplasm</b>					
relative <sup>a</sup> area (%)	$54.8 \pm 0.6$	$72.0 \pm 1.1$	$40.1 \pm 1.1$	$27.7 \pm 0.5$	$19.7 \pm 0.6$
approx. volume ( $\mu\text{m}^3$ )	$\sim 2,277$	$\sim 1,355$	$\sim 3,967$	$\sim 9,700$	$\sim 8,967$
<b>Vacuoles</b>					
relative area (%)	$44.9 \pm 0.5$	$27.9 \pm 0.8$	$59.9 \pm 0.6$	$72.2 \pm 0.9$	$80.2 \pm 1.2$
approx. volume ( $\mu\text{m}^3$ )	$\sim 1,863$	$\sim 526$	$\sim 5,950$	$\sim 25,300$	$\sim 44,837$

<sup>a</sup> Without nuclei