

Both cells are drawn the same length, but the magnification of each cell is different.

The real length of the bacterial cell is 2 micrometres. A **micrometre** is 1/1000th of a millimetre.

The real length, X, of the plant cell is:

$$2 \times 50\,000 = 100\,000$$

$$100\,000 / 500 = 200 \text{ micrometres}$$

Most mitochondria are about 3 micrometres in length. The plant cell contains mitochondria but the bacterial cell does not contain mitochondria. The reason for this is that the bacterial cell is too small [it is about same size as a mitochondrion].

Preview from Notesale.co.uk
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