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 ${\it micrometre}$ is 1/1000th of a millimetre.

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

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 _____ [it is about same size as a ______].

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