

1. The epidermis. This is the outermost tissue.

a. How many cell layers make up the epidermis? The epidermis includes five main layers: the stratum corneum, stratum lucidum, stratum granulosum, stratum spinosum, and stratum germinativum.

b. Are the cells cutinized? Yes, the cells are cutinized. Cutinized leaf epidermal cells and suberized root cell walls form important lipophilic interfaces between the plant and its environment, significantly contributing to the regulation of water uptake and the transport of solutes in and out of the plant.

2. The cortex. This is the region after the epidermis.

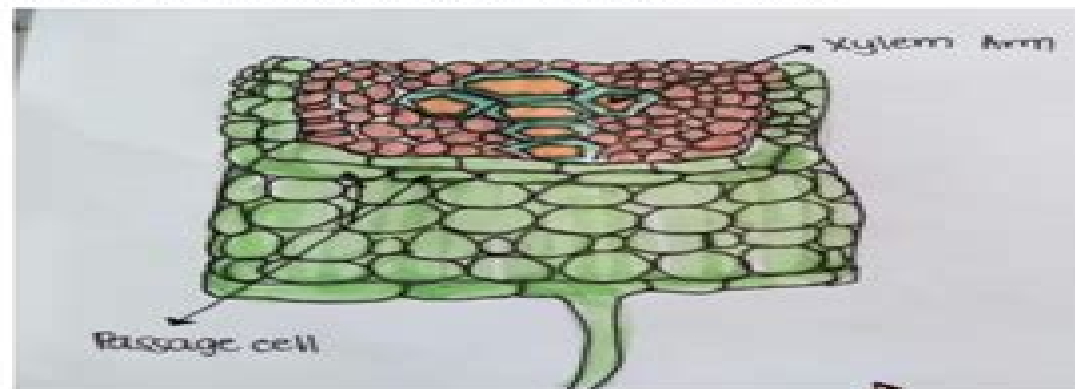
a. What is the inner boundary of the cortex? The endodermis (the innermost layer of the cortex adjacent to the pericycle) is composed of closely packed cells that have within their walls Casparian strips, water-impermeable deposits of suberin that regulate water and mineral uptake by the roots.

b. What types of cells make up the cortical region? Cortical cells are "spindle shaped" and are aligned parallel to the fiber axis. Cortical cells consist of several types: ortho and para, with slightly different physical and chemical properties, and the less common intermediate mesocortical cells, which have a structure that is intermediate between ortho and para.

c. How do the cells of the endodermis differ from the other cortical parenchyma cells? Endodermis is a specialized layer of cells marking the inner limit of the cortex. A typical endodermis is usually present in roots, in aquatic and subterranean stems and in the aerial stems of certain families (e.g. Labiatae and Cucurbitaceae).

While cortical parenchyma which is composed of the epidermis, multiple layers of cortical parenchyma tissue, and the endodermis. Due to the dominance of cortical parenchyma cells in this outer region of the root and the lack of an adequate botanical term, this tissue will subsequently be called cortical parenchyma.

d. Locate the endodermal cell opposite the xylem arm. It is called *passage cell*. How does it differ from the rest of the endodermal cells? A passage cell is defined as a type of endodermal or exodermal cell that possesses Casparian strips, but unlike other dermal cells, does not contain suberin lamellae.



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