

QUESTION

1. The following diagram shows the structure of a cell wall. The cell wall is made of cellulose, which is a polysaccharide. The cellulose molecules are arranged in a regular, repeating pattern, forming a mesh-like structure. This structure provides the cell with strength and rigidity.

2. The diagram also shows the presence of lignin, which is a complex organic polymer. Lignin is deposited in the cell wall, particularly in the secondary cell wall, and it provides additional strength and rigidity to the cell wall.

3. The overall structure of the cell wall is a result of the combination of cellulose and lignin. This structure is essential for the cell to maintain its shape and to withstand mechanical stress.



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