

1. The following diagram shows the structure of a cell wall. The cell wall is made of cellulose, which is a polysaccharide. The diagram shows the repeating unit of cellulose, which is a glucose molecule. The glucose molecule is a six-membered ring with a hydroxyl group (-OH) attached to the C4 carbon. The hydroxyl group is in the beta position, which allows for the formation of hydrogen bonds between adjacent glucose molecules, resulting in a strong, fibrous structure.



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hydroxyl



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