



## Introduction to Agricultural Biochemistry

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Book Condition: New. Publisher/Verlag: Springer Netherlands | One: The Cell and Cellular Constituents.- 1 Cell structure and function.- 1.1 Introduction.- 1.2 Components of cells.- 1.2.1 Plasma membrane.- 1.2.2 Cytoplasm.- 1.2.3 The nucleoid and nucleus.- 1.2.4 Cell walls.- 1.2.5 Ribosomes.- 1.2.6 Endoplasmic reticulum.- 1.2.7 Vacuoles and specialized vesicles.- 1.2.8 Mitochondria.- 1.2.9 Chloroplasts.- 1.2.10 Cytoskeleton.- 1.3 Cell specialization and interaction.- 2 Water and solutions.- 2.1 Introduction.- 2.2 The ionization of water.- 2.2.1 The pH of water.- 2.3 What are acids and bases?.- 2.4 Biological systems, ionic strength and pH.- 2.4.1 Stabilization of pH by buffers.- 2.5 Colligative properties.- 2.5.1 Depression of freezing point.- 2.5.2 Osmotic pressure.- 2.5.3 Semipermeable membranes that allow some solutes to pass.- 3 The carbohydrates.- 3.1 Introduction.- 3.2 Structures of sugars.- 3.2.1 Optical isomers.- 3.3 Naming of sugars.- 3.4 Sugars with four carbon atoms, the tetroses.- 3.5 Sugars with five carbon atoms, the pentoses.- 3.5.1 Ring formation in sugars.- 3.5.2 Five- and six-membered rings.- 3.5.3 Ring formation is not permanent.- 3.6 Sugars with six carbon atoms, the hexoses.- 3.6.1 Glucose.- 3.6.2 Fructose.- 3.6.3 Other hexoses.- 3.7 Reducing and non-reducing sugars.- 3.8 Formation of sugar acetals.- 3.8.1 Formation of disaccharides.- 3.8.2 Sucrose.- 3.9 Polysaccharides.- 3.9.1 The storage carbohydrates - starch...



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