



I'm not robot



Next

Lipids worksheet biology

Nucleic Acids p. 40-41, 478

1. What is a) DNA deoxyribonucleic acid and b) RNA ribonucleic acid
 2. What are the building blocks (subunits) of DNA and RNA? a) sugar, phosphate, base, phosphate, sugar
 3. Name the 3 parts of a nucleotide: a) sugar phosphate
b) sugar phosphate or ribose
c) nitrogenous base
 4. What is the sugar for DNA deoxyribose and for RNA? ribose
 5. Name the 4 bases in DNA adenine, thymine, cytosine, guanine
 6. Purines (A and G) have 2 rings and pyrimidines (C, U, and T) have 1 ring.
8. Of what is the backbone of a chain of nucleotides made up? sugar and phosphate
 9. What is the sequence of the molecules and groups in a nucleic acid polymer?
sugar, phosphate, sugar
 10. What is the sequence of the elements in a polypeptide's backbone? N-C-C-N
- X DNA is like a ladder. What are the rungs (the horizontal steps) of the DNA ladder? p. 478
X Draw figure 25.2 c) Ladder configuration p. 478
13. Why is DNA described as a "double helix"? helical shape w/ 2 strands
 14. What force holds the 2 strands together? hydrogen bonds
 15. What is "complementary base pairing"?
A-T G-C → particular bases pair together.
 16. In DNA, what do the following always bond with? A) Adenine Thymine
B) Guanine Cytosine
 17. What are the functions of Nucleic acids?
They store genetic material
 18. With what does RNA help?
Transcription → making proteins
 19. What is the name of a special nucleotide that is part of DNA or RNA? Adenosine Triphosphate
 20. What is ATP's function? Energy
 21. Of what is adenosine composed? Adenine, ribose, 3 P's
 22. Draw and label ATP. (include the wavy line!!!)
see lecture notes

888 (2007) Biology Worksheet for Biology

Part A: Classify each carbohydrate as monosaccharide, disaccharide, or polysaccharide.

1. Glucose: monosaccharide
2. Sucrose: disaccharide
3. Lactose: disaccharide
4. Fructose: monosaccharide
5. Starch: polysaccharide
6. Cellulose: polysaccharide
7. Glycogen: polysaccharide

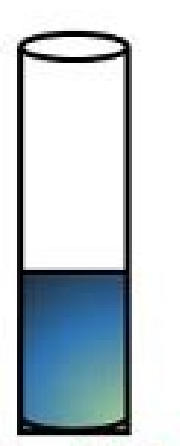
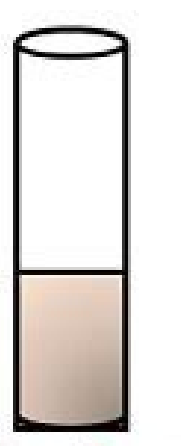
Part B: Identify the glycolipid molecule from the other structure and describe. Name every part of the molecule.

1. Glycerol: glycerol backbone
2. Phosphate: phosphate group
3. Sphingosine: sphingosine backbone
4. Lipid: hydrophobic tail

Part C: Which glycolipid molecule is associated with protein function, such as cell-cell communication?

1. Phospholipid
2. Glycolipid
3. Sphingolipid
4. Steroid

BURCHARD TEST

POSITIVE	NEGATIVE
 <p style="text-align: center;">Gives bluish green colour</p>	 <p style="text-align: center;">No colour change</p>

43 Biology Biological Molecules-Lipids Page 4 of 10

Lipids are hydrophobic. They are solid at 20°C whereas oils are liquid at 20°C. Both are insoluble in water.

Lipids are important biological molecules. What important roles do lipids perform in living organisms?

The structure of lipids

Lipids are large molecules made from the elements C, H, O. They are hydrophobic, only containing weak Van der Waals forces.

They are formed when a fatty acid molecule joins with a glycerol molecule to form a triglyceride.

Glycerol

A glycerol molecule contains a chain of 3 carbon atoms with attached hydrogen atoms and hydroxyl (OH) groups. The glycerol molecule is the same in all fats and oils. There are three OH groups, all capable of joining with a fatty acid in a condensation reaction. This is its structure.

Fatty Acids

A single fatty acid molecule contains an acid functional group (-COOH), attached to a hydrocarbon chain. The hydrocarbon chain can vary in length (up to 24 carbon atoms) and structure (saturated or unsaturated). This is the structure of a fatty acid.

The formation of a triglyceride

Biology lipids worksheet. Ap biology lipids worksheet. Lipids worksheet biology answer key.

The elements that comprise the basic structure of lipids are carbon, hydrogen, and oxygen. micelles. 2. palmitic acid would have the higher melting temperature and higher water solubility. Decreasing the temperature of the membrane environment. C18: trans-Δ9 (elaidic acid), C18: cis-Δ9 (oleic acid) and 18:0 (stearic acid) D. When comparing C12:0 lauric acid to C16:0 palmitic acid: A. BBoth unsaturated and saturated triglycerides are liquid at room temperature. DLipids are the site of protein synthesis within the cell. DBoth unsaturated and saturated triglycerides are solid at room temperature. Q4: Which of the following is not a characteristic of lipids? Liposomes. Decreased content of phospholipids with long, saturated fatty acyl chains. B. palmitic acid would have the lower melting temperature and lower water solubility. ATypeTriglyceridePhospholipidFunctionIncreasing the rigidity of the cell membrane and making it less permeable Providing a source of energy when broken down in respiration BTypeTriglyceridePhospholipidFunctionProviding a source of energy when broken down in respiration Increasing the rigidity of the cell membrane and making it less permeable DTypeTriglyceridePhospholipidFunctionMaking up the basic structure of the cell membrane Providing a source of energy when broken down in respiration Q10: Which of the following correctly describes how the appearance of saturated and unsaturated triglycerides differs? Decreased content of phospholipids with short, unsaturated fatty acyl chains. ELipids are formed from three glycerol molecules and a fatty acid. CIn lipids, the ratio of oxygen to carbon is smaller than that in carbohydrates. D. ALipids in plant cells can act as a waxy layer or cuticle. Three C18 fatty acids melt at 69.6 °C, 45.0 °C and 13.4 °C. ACarbon dioxide BWater CHydrogen DHydroxide Q3: Which of the following is a major function of lipids in plant cells? Olive oil is liquid and palm oil is semi solid. Print {{ws_solutions.user.firstname}} {{ws_solutions.user.lastname}} answers {{ws_solutions.user.username}} answers The assignment is now closed Start creating - For free! Thank you for your participation! In this worksheet, we will practice describing the structure, synthesis, and properties of lipids. 18:0 (stearic acid), C18: trans-Δ9 (elaidic acid) and C18: cis-Δ9 (oleic acid) B. ALipids are insoluble in water. C18: cis-Δ9 (oleic acid), C18: trans-Δ9 (elaidic acid) and 18:0 (stearic acid) 4. palmitic acid would have the higher melting temperature and lower water solubility. palmitic acid would have the lower melting temperature and higher water solubility. BLipids make up the myelin sheath that surrounds plant nerve cells. So compared to olive oil, palm oil has: A. DLipids are soluble in organic solvents. bilayers. higher C16/C18 unsaturated fatty acid content B. A. lower C16/C18 unsaturated fatty acid content D. Which of the following is expected to increase membrane fluidity? Q7: Which of the following tables correctly links the type of lipid to its primary function in animal cells? 5. C. ASaturated triglycerides are often solid at room temperature (e.g., butter), whereas unsaturated triglycerides are often liquid (e.g., oil). In order, these fatty acids are: A. 18:0 (stearic acid), C18: cis-Δ9 (oleic acid) and C18: trans-Δ9 (elaidic acid) C. Q2: What molecule is removed in the reaction that forms a triglyceride from a glycerol molecule and fatty acids? Decreased content of peripheral membrane proteins. a mixture of different lipid structures 3. Thank you for your participation! BCMB20002 Module 4 lipids worksheet 1. CUnsaturated triglycerides are often solid at room temperature (e.g., butter), whereas saturated triglycerides are often liquid (e.g., oil). The addition of free fatty acid molecules to an aqueous solution at physiological temperatures favours the formation of: A. lower C16/C18 saturated fatty acid content C. higher C16/C18 saturated fatty acid content {{getToolbarWorksheetName()}} has been added to your worksheets! Worksheet added to your worksheets! Don't forget to leave a comment. Please leave a comment. CLipids can be broken down in photosynthesis to provide energy.

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