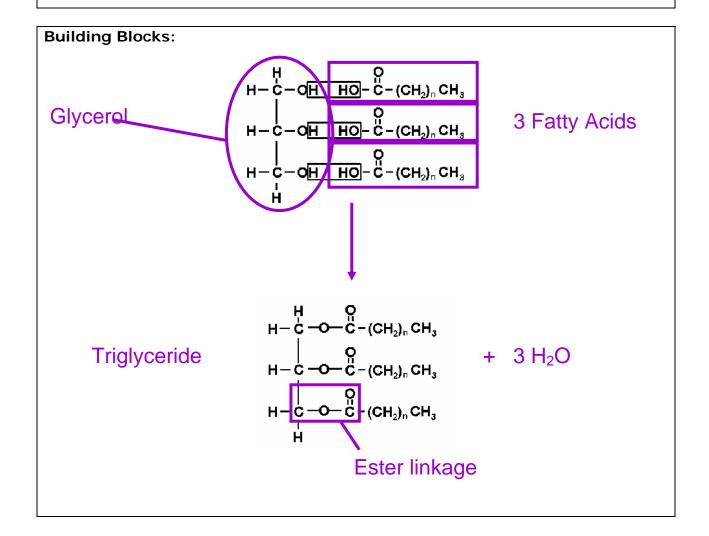
Notes

AP BIOLOGY BIOCHEMISTRY ACTIVITY #5 DATE_____HOUR___

LIPIDS

General Characteristics:

Not soluble in water Mostly hydrocarbon chains Fats, steroids, phospholipids



Fats:

Glycerol + fatty acids source

Triglycerides have 3 fatty acids Fatty acids present may vary

Compact energy

Cushions vital organs Provides insulation

Saturated:

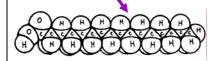
No double bonds between carbons
Straight chain

Unsaturated:

At least 1 double bond between carbons

Hydrocarbon chain is bent

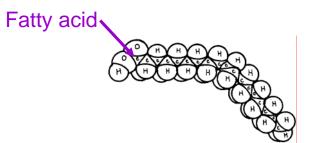
Fatty acid



Usually solid at room temperature

Straight chains allow for tight packing

Most animal fats



Usually liquid at room temperature

Bent chain prevents tight packing Most plant fats

STEROIDS:

Consist of 4 fused carbon rings
Three are 6-sided

One is 5-sided

Attached functional groups vary

Cholestero -

- Precursor of other steroids
- Component of animal cell membranes
- Contributes to artereosclerosis

