

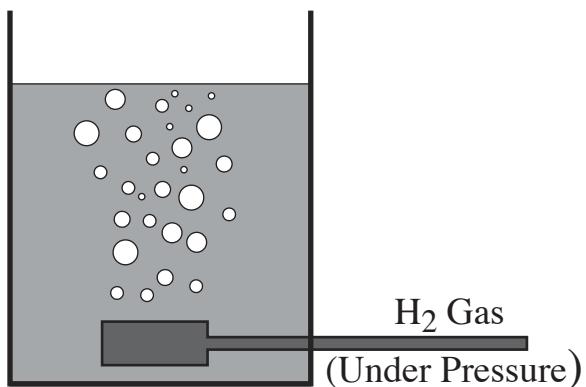
Lipids

1. Introduction (Page 158 ff)
2. Characteristics of Lipids
 - A. Solubility
 - B. Energy - 9 kcal/gm
 - C. Structure
3. Triglyceride (Page 158 - 159, 161)
 - i. Glycerol
 - ii. Fatty Acids
 - a. Saturated
 - b. Monounsaturated
 - c. Polyunsaturated
 - iii. Saturation Effect: Fats and Oils (Page 161, see figure 6.5)
 - a. Fats
 - b. Oils
 - Effect on Cell Membranes
 - iv. Essential Fatty Acids (Page 159; also see HANDOUT)
 - v. Eskimos and Diet

Nutrition - Lipids Outline

4. Trans Fats (Page 160 - 161)

A. Structural Differences



B. Hydrogenation Process

C. Purpose of Hydrogenation

D. Physiological Consequences

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5. Lipids and Emulsification (Page 160 - 161)

(Pull out handout on Emulsification)

A. Phospholipid

B. Hydrophilic and Hydrophobic Characteristics

C. Emulsification

D. Emulsifiers

i. Lecithin

6. Cholesterol (Page 164)

A. Structural

B. Cholesterol Good or Bad

C. Foods High in Cholesterol

D. Cholesterol and Bile

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7. Lipid Transport in the Body (Page 165 - 168)

(Pull out handout on Lipid Transport)

8. Function of Fat (Adipose) Tissue (Page 168)

A. Importance of Fat Tissue

B. What Happens when Fat tissue is digested

9. Fat and Energy (Page 168)

A. Energy

B. Heart

C. Energy Needs