



FIGURE 4.14. Lipids. (A) General structure of phospholipids. Phospholipids are made up of fatty acids, glycerol, and a phosphate group. They are amphipathic, with one hydrophobic end and one hydrophilic end. (B) Bilayers form when phospholipids spontaneously aggregate in water. The hydrophobic ends attract each other in the center of the layer and the hydrophilic ends are surrounded by water. (C) Liposomes are formed when a lipid bilayer folds over itself.

4.14A, redrawn from Web source, no longer available; 4.14B,C, adapted from Berg J.M. et al., *Biochemistry* 5e, Figs. 12.10, 12.12, © 2002 W.H. Freeman