

Figure 10.24 Schematic diagram of a differential scanning calorimeter.

The instrument consists of two identical chambers, labeled A and B. Chamber A contains the protein, along with a buffer solution. Chamber B contains only the buffer. During the course of the experiment, the temperature of each chamber is kept precisely the same, while the temperature in both chambers is increased by attached heating elements. The excess heat transferred to chamber A relative to chamber B is monitored and is related to the heat capacity of the protein.

