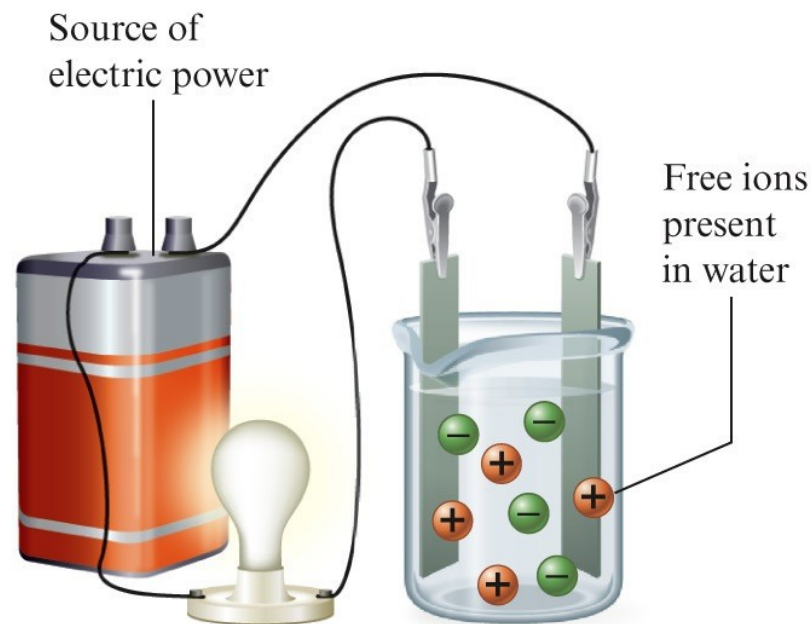


a

Pure water does not conduct an electric current.
The lamp does not light.



b

When an ionic compound is dissolved in water, current flows and the lamp lights. The result of this experiment is strong evidence that ionic compounds dissolved in water exist in the form of separated ions.