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Hydrogen Production, Could It Be Cheap?

In my experiment I was trying to produce hydrogen from renewable sources. The sources I tested were bacteria and algae. In the algae test, I first placed *Chlamydomonas reinhardtii* in a two liter bottle with a soil medium, but the soil contained sulfur that prevented hydrogen production. Next I put the algae in a medium that contained no sulfur but the algae still showed no hydrogen production. In the test with the bacteria, I heated the soil to a temperature just under water's boiling to sterilize the soil of all bacteria but the hydrogen producing ones. Instead in the heating all the bacteria were removed from the soil. Neither process showed any hydrogen production because I was unable to produce the right environment for them.