

## Biohydrogen production in integrated system

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### ABSTRACT

Biohydrogen formation during the fermentation carried out by an *Escherichia coli* strain was studied and its recovery, purification was investigated by a polymeric gas separation module. The aim is to design and build an integrated system, where a membrane module is connected to the fermenter and purified biohydrogen obtained is to use directly in a PEM fuel cell.

*Keywords:* *Escherichia coli*; Gas separation; Sodium formate

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