Biohydrogen production in integrated system

K. Bélafi-Bakó\textsuperscript{a,}, P. Bakonyi\textsuperscript{a,}, N. Nemestóthy\textsuperscript{a,}, Z. Pientka\textsuperscript{b}

\textsuperscript{a}Research Institute of Chemical and Process Engineering, University of Pannonia, Egyetem ut 10, 8200 Veszprém, Hungary
Tel. +36 88624044; Fax +36 88624038; email: bako@mukki.richem.hu

\textsuperscript{b}Institute of Macromolecular Chemistry, Academy of Sciences, Heyrovsky sq. 2, Prague, Czech Republic

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\textbf{ABSTRACT}

Biohydrogen formation during the fermentation carried out by an \textit{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.

\textit{Keywords: Escherichia coli; Gas separation; Sodium formate}