EXPLOITABLE FOREGROUND

Industrial Yeast Strain combining inhibitor and temperature tolerance

Explanation and Purpose

An industrial Saccharomyces cerevisiae strain named ISO12 and derived from the industrial strain Ethanol Red, has been isolated from a long-term adaptation experiment using spruce hydrolysate and increasing temperature.

In contrast with Ethanol Red, ISO12 is able to grow and ferment undetoxified spruce hydrolysate at 39°C without prior strain adaptation (Figure 1).

ISO12 represents a good platform for strain engineering as well as for the identification of tolerance factors.

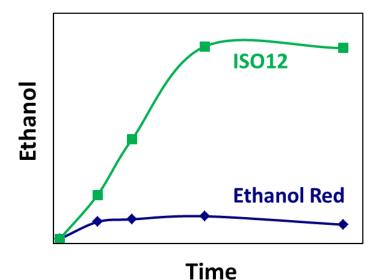


Figure 1: Ethanol production from undetoxified spruce hydrolysate at 39°C

Novel Microbes and Enzymes for 2nd Generation Bioethanol Production



Contact for Exploitable Result:

Lunds Universitet (ULUND)

Prof. Marie F Gorwa-Grauslund

Marie-Francoise.Gorwa@tmb.lth.se

Project Coordination:

VTT Technical Research Centre of Finland Prof. Merja Penttilä merja.penttila@vtt.fi

Project Dissemination:

WIP – Renewable Energies, Germany Dr. Rainer Janssen rainer.janssen@wip-munich.de

NEMO Website: http://nemo.vtt.fi



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