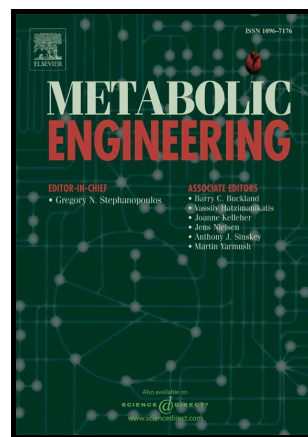


Bio-based succinate from sucrose: High-resolution ^{13}C metabolic flux analysis and metabolic engineering of the rumen bacterium *Basfia succiniciproducens*

Anna Lange, Judith Becker, Dennis Schulze, Edern Cahoreau, Jean-Charles Portais, Stefan Haefner, Hartwig Schröder, Joanna Krawczyk, Oskar Zelder, Christoph Wittmann



www.elsevier.com/locate/ymben

PII: S1096-7176(17)30175-1
DOI: <https://doi.org/10.1016/j.ymben.2017.10.003>
Reference: YMBEN1298

To appear in: *Metabolic Engineering*

Received date: 30 May 2017
Revised date: 10 September 2017
Accepted date: 4 October 2017

Cite this article as: Anna Lange, Judith Becker, Dennis Schulze, Edern Cahoreau, Jean-Charles Portais, Stefan Haefner, Hartwig Schröder, Joanna Krawczyk, Oskar Zelder and Christoph Wittmann, Bio-based succinate from sucrose: High-resolution ^{13}C metabolic flux analysis and metabolic engineering of the rumen bacterium *Basfia succiniciproducens*, *Metabolic Engineering*, <https://doi.org/10.1016/j.ymben.2017.10.003>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Bio-based succinate from sucrose: High-resolution ^{13}C metabolic flux analysis and metabolic engineering of the rumen bacterium *Basfia succiniciproducens*

Anna Lange¹, Judith Becker¹, Dennis Schulze¹, Edern Cahoreau^{2,3,4}, Jean-Charles Portais^{2,3,4}, Stefan Haefner⁵, Hartwig Schröder⁵, Joanna Krawczyk⁵, Oskar Zelder⁵ and Christoph Wittmann^{1*}

¹ Institute of Systems Biotechnology, Saarland University, Germany

² Université de Toulouse, INSA, UPS, INP, Toulouse, France

³ INRA, UMR792 Ingénierie des Systèmes Biologiques et des Procédés, Toulouse, France

⁴ CNRS, UMR5504, Toulouse, France

⁵ BASF SE, Fine Chemicals and Biotechnology, Ludwigshafen, Germany

*Corresponding address: Campus A1.5, 66123 Saarbrücken, Germany, christoph.wittmann@uni-saarland.de, Phone: +49-681-302-71970, Fax: +49-681-302-71972.

Download English Version:

<https://daneshyari.com/en/article/6494150>

Download Persian Version:

<https://daneshyari.com/article/6494150>

[Daneshyari.com](https://daneshyari.com)