

## Untersuchung Der Bildung Von 4-Hydroxyvaleriansäure Innerhalb Des Lavulinsäuremetabolismus Von Ralstonia Eutropha



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## UNTERSUCHUNG DER BILDUNG VON 4-HYDROXYVALERIANSÄURE INNERHALB DES LAVULINSAUREMETABOLISMUS VON RALSTONIA EUTROPHA

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Grin Verlag. Paperback. Condition: New. 136 pages. Dimensions: 8.3in. x 5.8in. x 0.3in. Diplomarbeit aus dem Jahr 2003 im Fachbereich Biologie - Mikrobiologie, Molekularbiologie, Note: 1, 3, Westfälische Wilhelms-Universität Münster (Institut für Molekulare Mikrobiologie und Biotechnologie), Sprache: Deutsch, Anmerkungen: During these studies Florian Heuser investigated the catabolism of levulinic acid in the Gram-negative bacterium *Ralstonia eutropha*, and he made some contributions to our knowledge on the enzymes converting levulinic acid to 4-hydroxyvaleryl-Coenzyme A and the corresponding genes. These studies included enzymatic analysis, analysis of the *Ralstonia eutropha* proteome by two-dimensional polyacrylamide gel electrophoresis and molecular genetic studies such as amplification of genes by PCR and cloning of genes in expression vectors. Experts report, Oktober 2003, Abstract: Ziel dieser Arbeit war die Identifizierung einer Levulinatreduktase in *Ralstonia eutropha*, welche aus dem günstigsten Substrat Levulininsäure 4-Hydroxyvaleriansäure produziert, welches als Vorstufe für ein Homopolyester genutzt werden sollte. Zur Identifizierung des entsprechenden Gens wurde eine potenzielle Levulinatreduktase in *Ralstonia eutropha* mittels molekularbiologischer Methoden deletiert. Da dieser Ansatz nicht zielführend war, wurde vergleichende zweidimensionale Proteinelektrophorese angewendet, wobei Kandidaten mittels MALDI-TOF identifiziert wurden. Ein ausführliches Protokoll für die Erstellung von 2-D-Gelen aus bakteriellem Proteom ist in dieser Arbeit gegeben. Ferner liegt ein Protokoll für die Identifizierung von Fettsäuren mittels Gaschromatographie vor. Diese Arbeit gibt einen guten Überblick über die Produktion von Biopolymeren durch *Ralstonia eutropha*. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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