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## Untersuchung Der Bildung Von 4-Hydroxyvaleriansaure Innerhalb Des Lavulinsauremetabolismus Von Ralstonia Eutropha

By Florian Heuser

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 günstigen Substrat Levulinure 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...



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