

Title (en)  
METHANOL DEHYDROGENASE ENZYME; A PROCESS FOR CULTURING MICRO-ORGANISMS; CHEMICAL PRODUCTS; EPOXIDATIONS OR HYDROXYLATIONS CATALYZED BY MICRO-ORGANISMS; METHYLOTROPHIC MICRO-ORGANISMS.

Title (de)  
METHANOLDEHYDROGENASE ENZYM, VERFAHREN ZUM ZÜCHTEN VON MIKROORGANISMEN, CHEMISCHE PRODUKTE, MITTELS DIESER MIKROORGANISMEN KATALYSIERTE EPOXIDIERUNGEN UND HYDROXYLIERUNGEN, METHYLLOTROPHE MIKROORGANISMEN.

Title (fr)  
ENZYME METHANOL-DESHYDROGENASE; PROCEDE DE CULTURE DE MICRO-ORGANISMES; PRODUITS CHIMIQUES; EPOXYDATIONS OU HYDROXYLATIONS CATALYSEES PAR DES MICRO-ORGANISMES; MICRO-ORGANISMES METHYLLOTROPHES.

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Application  
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Abstract (en)  
[origin: WO8501063A1] An NAD-dependent methanol dehydrogenase enzyme which, in vivo, forms part of a complex with NADH dehydrogenase enzyme and formaldehyde dehydrogenase enzyme, which complex is coupled to the respiratory chain via the NADH dehydrogenase enzyme. The invention further relates to a process for culturing micro-organisms capable of producing this enzyme, in which methanol is used as a C source; to chemical products recovered, and epoxidation and hydroxylation reactions carried out, by means of such micro-organisms; and also to such methylotrophic micro-organisms per se.

Abstract (fr)  
Enzyme méthanol-déshydrogénase NAD-dépendante qui, in vivo, fait partie d'un complexe avec l'enzyme NADH-déshydrogénase et l'enzyme formaldéhyde déshydrogénase, complexe qui est couplé à la chaîne respiratoire par l'enzyme NADH-déshydrogénase. Procédé de culture de micro-organismes capables de produire cette enzyme, où le méthanol est utilisé comme source de C; produit chimique récupéré et réactions d'époxydations et d'hydroxylations exécutées grâce auxdits micro-organismes; micro-organismes méthylotrophes per se.

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**C12N 9/04**; **C12N 1/32**; **C12P 17/02**; **C12P 7/02**; **C12N 15/00**

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