

Title (en)

ETHYLENE OXIDIZING MICROORGANISM AND USE THEREOF

Title (de)

ETHYLEN OXIDIERENDER MIKROORGANISMUS UND SEINE VERWENDUNG

Title (fr)

MICRO-ORGANISME OXYDANT L'ETHYLENE ET SON UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO9940177A1] Ethylene oxidizing microorganisms which are capable of reducing the ethylene content in an ethylene-containing gas to levels below 0.1 ppm and which have an ethylene removal efficiency which exceeds 90 % even at temperatures around 10 DEG C. The microorganisms show a high degree of operational stability when used in a bioreactor for extended periods of time in the presence of ethylene and they can, when mixed with a carrier material, be stored for several weeks in the absence of ethylene without significant loss of their ethylene removal capacity. A bioreactor comprising the microorganism is used for controlling the ethylene content in storage facilities for agricultural or horticultural products.

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