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(54) Title: RECOMBINANT BACTERIA FOR PRODUCING GLYCEROL AND GLYCEROL-DERIVED PRODUCTS FROM SUCROSE

(57) Abstract: Recombinant bacteria capable of producing glycerol and glycerol-derived products from sucrose are described. The recombinant bacteria comprise in their genome or on at least one recombinant construct: a nucleotide sequence encoding a polypeptide having sucrose transporter activity; a nucleotide sequence encoding a polypeptide having fructokinase activity; and a nucleotide sequence encoding a polypeptide having sucrose hydrolase activity. These nucleotide sequences are each operably linked to the same or a different promoter. These recombinant bacteria are capable of metabolizing sucrose to produce glycerol and/or glycerol-derived products such as 1,3-propanediol and 3-hydroxypropionic acid.



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