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(71) Applicant: **AGAIN BIO APS** [DK/DK]; Emdrupvej 70, 2400 København (DK).

(72) Inventors: **JENSEN, Torbjørn**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **CHIGNELL, Jeremy**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **LARDON, Laurent**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **ELLEGAARD, Martin**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **DOBRESCU, Andreea**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **MOL, Viviënne**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **NORBERG, Arvid**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK). **BACH FALKENBERG, Kristoffer**; c/o Again Bio ApS, Emdrupvej 70, 2400 København (DK).

(74) Agent: **MEWBURN ELLIS LLP**; Aurora Building, Counterslip, Bristol BS1 6BX (GB).

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(54) Title: MICROBIAL FERMENTATION

(57) Abstract: A microbial fermentation of a microorganism in a fermentation broth and a method of controlling said microbial fermentation is provided. The microorganism is capable of converting one or more gases into one or more organic acids and is a thermophilic microorganism. The method comprises varying the pH of the fermentation broth such as to provide a free acid concentration in the fermentation broth of greater than 8 mM; and maintaining the alcohol concentration of one or more alcohols in the fermentation broth at less than 100 mM throughout the fermentation.