

Base : FAMPAT**SEARCH STRATEGY****SS Results**

24	74	5 AND 6 AND 23
23	1416	RECYCL+ 1D CELLS/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
22	0	RECYCL+ 1D CELLSV
21	323	18 AND 8
20	0	18 AND 10
19	0	18 AND 10 AND 11
18	472	(PROPIONIBACTERIUM 1D ACIDIPROPIONICI)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
17	4	16 AND 6
16	68	SEQUENTIAL 1D FERMENTATION
15	3	14 AND GLYCEROL AND SUGAR AND LACTATE
14	262	2 AND 4
13	21	9 AND 11
12	11	9 AND 10
11	232	YIELD PROPION+/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
10	863	YIELD BIOMASS/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
9	7118	7 AND 8
8	3834324	YIELD/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
7	9350	4 AND 5 AND 6
6	399387	PROPIONAT+/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
5	551063	FERMENTAT+/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
4	5964050	(SEQUENTIAL OR SUCCESSIVE, OR CONSECUTIVE OR SERIAL)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
3	1	(SEQUENTIAL OR SUCCESSIVE, OR CONSECUTIVE OR SERIAL)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (WO2016146721)/PN
2	751	..SIMILARITY SS 1 RANKED 1
1	1	(WO2016146721)/PN

4 Documents

Publication numbers	Title	Current assignees
IE8500948 L	Microbial co-culture production of propionic acid	IGI BIOTECHNOLOGY
FI8501491 A0	Improved fermentation process	NATIONAL STARCH & CHEMICAL INVESTMENT HOLDING
US20130101576 A1	Composition containing an extract of a sequential or simultaneous fermentation	ARCH PERSONAL CARE PRODUCTS
CA1276576 C	Microbial co-culture production of propionic acid	IGI BIOTECHNOLOGY

Title

(EP-185675)

Microbial co-culture production of propionic acid

Publication data including kind & date

IE850948	L	1985-10-16	IE8500948			
WO8504901	A1	1985-11-07	WO8504901			
AU4150185	A	1985-11-15	AU8541501			
DK571785	A	1985-12-10	DK8505717			
DK571785	D0	1985-12-10	DK8505717			
EP0185675	A1	1986-07-02	EP-185675			
JPS61501885	A	1986-09-04	JP61501885			
EP0185675	A4	1988-01-20	EP-185675			
US4794080	A	1988-12-27	US4794080			
NZ211747	A	1989-05-29	NZ-211747			
JPH0358279	B2	1991-09-04	JP91058279			
EP0185675	B1	1992-07-15	EP-185675			
DE3586346	D1	1992-08-20	DE3586346			
DE3586346	T2	1993-01-14	DE3586346			
IE60242	B1	1994-06-15	IE--60242			

Abstract

(EP-185675)

The cultivation of proprietary and genetically altered strains of *Lactobacillus casei* subspecies *rhamnosus* in the presence of *Veillonella criceti* in a medium containing a fermentable carbohydrate results in the production of propionate, acetate, carbon dioxide and hydrogen. In the absence of either strain, carbohydrates are generally not fermented to propionate. Under optimum fermentation conditions lactate, the major product of carbohydrate metabolism of *L. casei*, is rapidly metabolized to propionate, acetate, carbon dioxide and hydrogen by *V. criceti* and is present in the culture medium at a concentration less than 0.5 milligrams per milliliter. The yield of propionate produced is approximately 1.4 moles propionate per mole of fermentable monosaccharide or 2.8 mole per moles of fermentable disaccharide utilized. In addition to the propionate fermentation, lactate can be accumulated by blocking its conversion to propionate by the adjustment of the pH, temperature or degree of aeration of the fermentation medium. Thus a mixture of propionate, acetate and lactate can be efficiently produced from fermentable carbohydrates by the co-cultivation of these bacterial strains.

Inventors

MAYS, THOMAS, D.

FORNILI, PAMELA, N.

Latest standardized assignees - inventors removed

IGI BIOTECHNOLOGY

Family 2/4 - FAMPAT - ©Questel

Title

(EP-160417)

Improved fermentation process

Publication data including kind & date

FI851491	A0	1985-04-15	FI8501491			
DK179785	D0	1985-04-22	DK8501797			
NO851622	A	1985-10-25	NO8501622			
DK179785	A	1985-10-25	DK8501797			
FI851491	L	1985-10-25	FI8501491			
EP0160417	A2	1985-11-06	EP-160417			

JPS60234586	A	1985-11-21	JP60234586			
AU4161885	A	1985-12-05	AU8541618			
EP0160417	A3	1987-06-16	EP-160417			
US4676987	A	1987-06-30	US4676987			
AU574778	B2	1988-07-14	AU-574778			
CA1241564	A	1988-09-06	CA1241564			
NZ211877	A	1989-01-06	NZ-211877			
MX7664	E	1990-06-29	MX---7664			
NO164917	B	1990-08-20	NO-164917			
NO164917	C	1990-11-28	NO-164917			
FI83094	B	1991-02-15	FI--83094			
FI83094	C	1991-05-27	FI--83094			
EP0160417	B1	1991-07-03	EP-160417			
DE3583355	D1	1991-08-08	DE3583355			

Abstract

(EP-160417)

An improved process for manufacture of fermented whey having a high concentration of calcium **propionate** is disclosed in which the whey medium having a solids content ranging from about 0.5% to about 18% by weight is pre-fermented with a lactic acid producing organism, neutralized with Ca(OH)₂ and sterilized. The sterilized calcium **lactate** containing medium is then inoculated with a propionic acid-producing bacterium and incubated for a sufficient period of time to maximize the **fermentation**.

Inventors

AHERN, WILLIAM PHILLIP

SKOGERSON, LAWRENCE EUGENE

ANDRIST, DALE FREDERICK

Latest standardized assignees - inventors removed

NATIONAL STARCH & CHEMICAL INVESTMENT HOLDING

Family 3/4 - FAMPAT - ©Questel

Title

(EP2773431)

Composition containing an extract of a sequential or simultaneous **fermentation****Images**

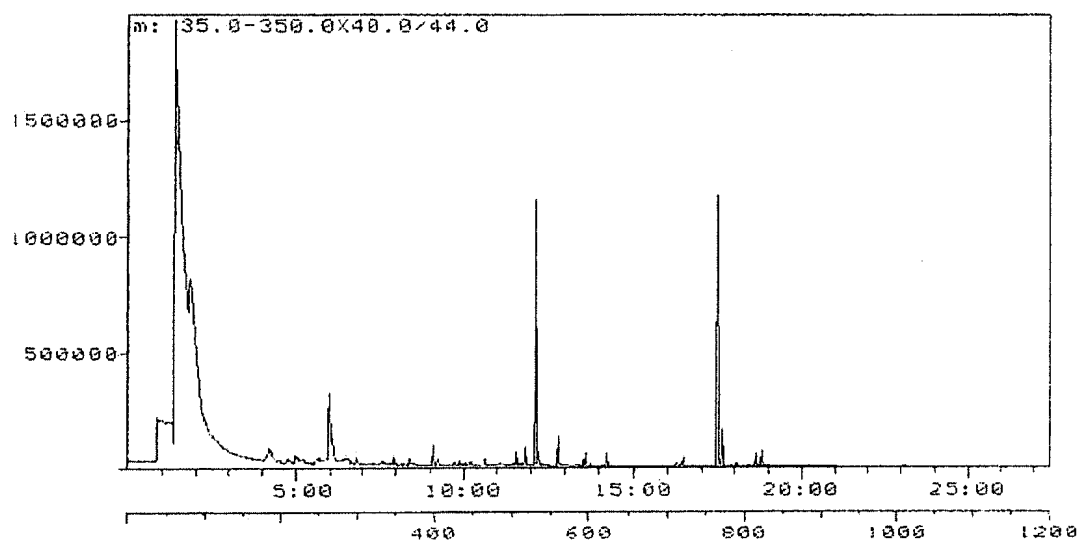


FIGURE 1

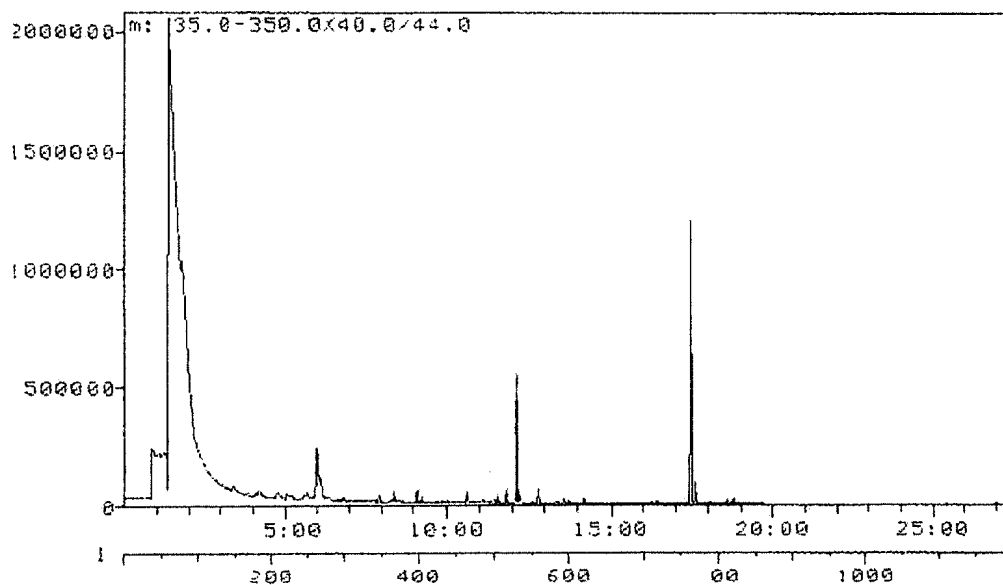


FIGURE 2

Publication data including kind & date

US20130101576	A1	2013-04-25	US20130101576
WO2013060771	A2	2013-05-02	WO2013060771
WO2013060771	A3	2014-01-30	WO2013060771
KR20140094563	A	2014-07-30	KR20140094563
CN103957997	A	2014-07-30	CN103957997
EP2773431	A2	2014-09-10	EP2773431
JP2014530890	A	2014-11-20	JP2014530890
HK1201486	A1	2015-09-04	HK1201486



[JP6284881](#)

B2 2018-02-28 JP6284881

[CN103957997](#)

B 2018-09-21 CN103957997B

**Abstract**

(EP2773431)

Disclosed herein is a topical composition that contains a **fermentation** extract from a simultaneous or sequential **fermentation**. When topically applied to skin, the composition of the invention is effective in stimulating the production of hyaluronic acid, CD44 and Caspase 14 protein in skin cells.

Inventors

GRUBER JAMES VINCENT

RAO SMITHA

Latest standardized assignees - inventors removed

ARCH PERSONAL CARE PRODUCTS

Family 4/4 - FAMPAT - ©Questel

Title

(CA1276576)

Microbial co-culture production of propionic acid

Images

REEMPLACEMENT

SECTION is not Present

Cette Section est Absente

Publication data including kind & date[CA1276576](#)

C 1990-11-20 CA1276576

**Abstract**

(CA1276576)

A simultaneous sequential anaerobic **fermentation** process for the in vitro production of propionic acid and acetic acid is disclosed. The process comprises employing an obligatory twocomponent co-culture which maintains a relatively constant ratio of species populations over multiple passages. A first coculture component is a Lactobacillus or Streptococcus which homofermentatively converts the hexose to lactic acid. A second microorganism in the co-culture is a Veillonella which is metabolically incapable of assimilating the hexose and converts the lactic acid product to propionic acid and acetic acid. The co-culture is inoculated into a nutrient growth feedstock, such as whole whey or a clarified dairy whey lactose permeate, which contains a metabolizable source of a hexose, such as glucose, lactose or sucrose.

Inventors

MAYS THOMAS D

FORNILI PAMELA N

Latest standardized assignees - inventors removed

