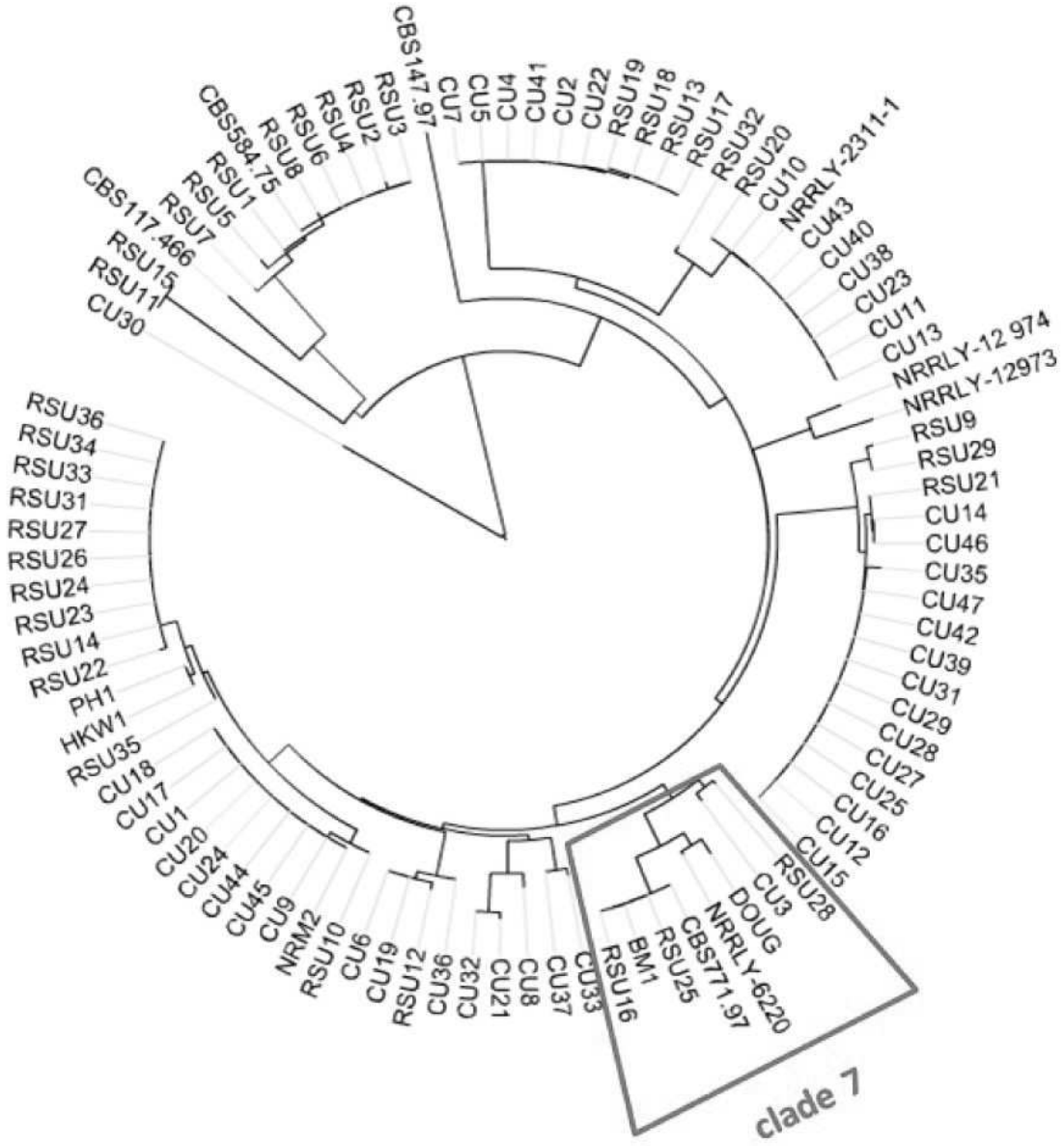

CBS147.97
CU7
CU5
CU4
CU41
CU2
CU22
RSU19
RSU18
RSU13
RSU17
RSU32
RSU20
CU10
NRRLY-2311-1
CU43
CU40
CU38
CU23
CU11
CU13
NRRLY-12 974
NRRLY-12973
RSU9
RSU29
RSU21
CU14
CU46
CU35
CU47
CU42
CU39
CU31
CU29
CU28
CU27
CU25
CU16
CU12
CU15
RSU28
CU3
DOUG
NRRLY-6220
CBS771.97
RSU25
BM1
RSU16
CU33
CU37
CU8
CU21
CU32
CU36
RSU12
CU19
CU6
RSU10
NRM2
CU9
CU45
CU44
CU24
CU20
CU1
CU17
CU18
RSU35
HKW1
PH1
RSU22
RSU14
RSU23
RSU24
RSU26
RSU27
RSU31
RSU33
RSU34
RSU36
CU30
RSU11
RSU15
CBS117.466
RSU7
RSU5
RSU1
CBS584.75
RSU8
RSU6
RSU4
RSU2
RSU3
clade 7

FIG. 1

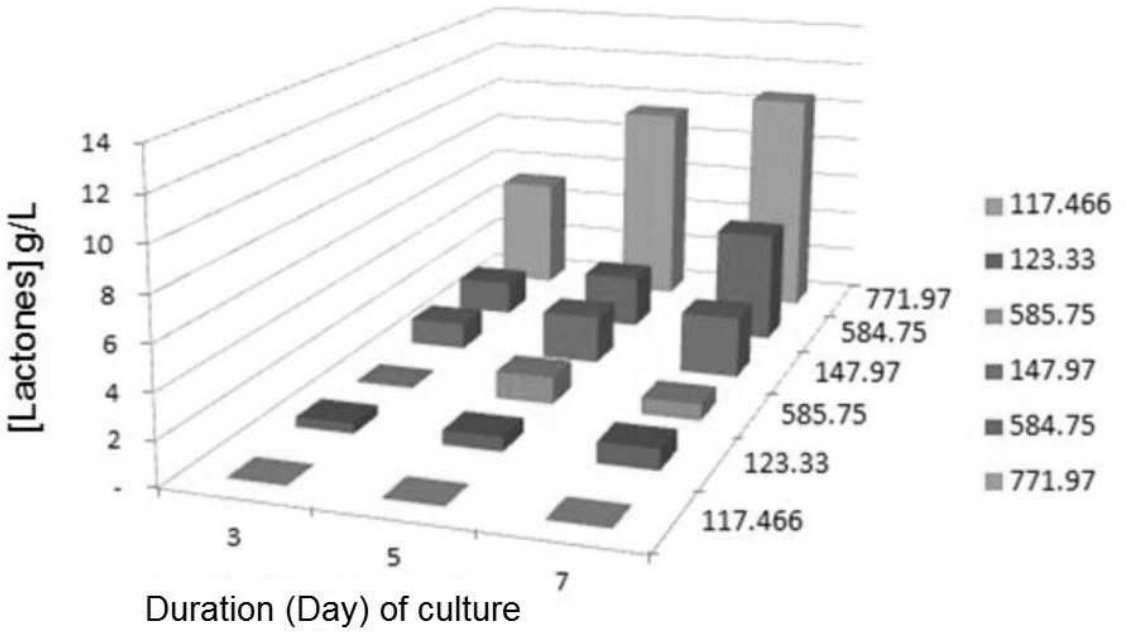

[Lactones] g/L
14
12
10
8
6
4
2
-
3
5
7
Duration (Day) of culture
771.97
584.75
147.97
585.75
123.33
117.466
117.466
123.33
585.75
147.97
584.75
771.97

FIG. 2

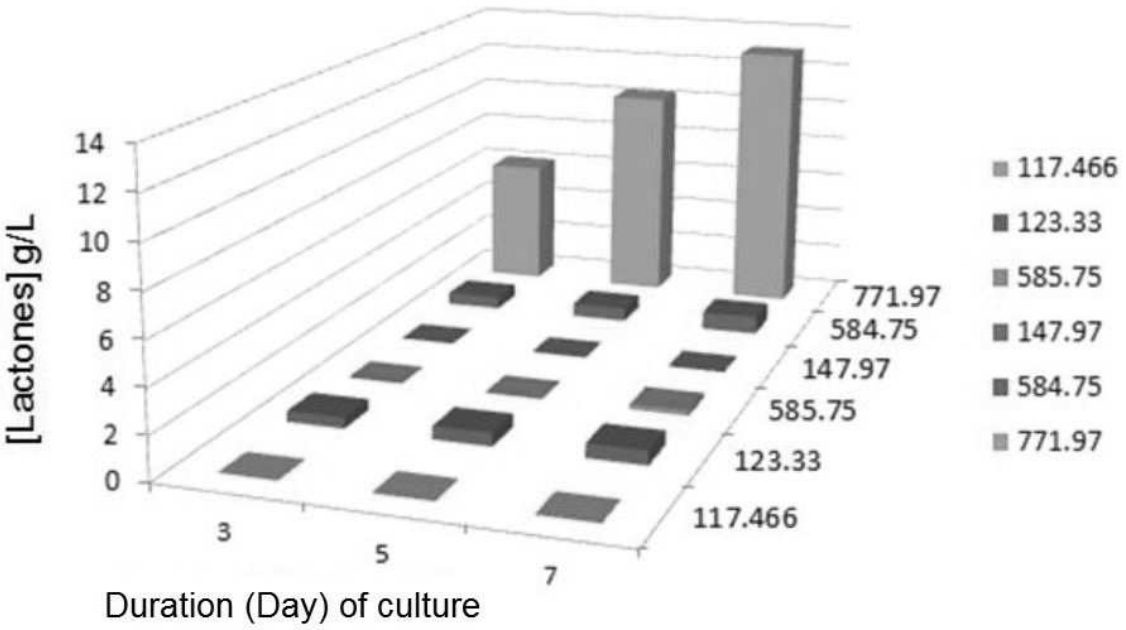

[Lactones] g/L
14
12
10
8
6
4
2
0
3
5
7
Duration (Day) of culture
771.97
584.75
147.97
585.75
123.33
117.466
117.466
123.33
585.75
147.97
584.75
771.97

FIG. 3

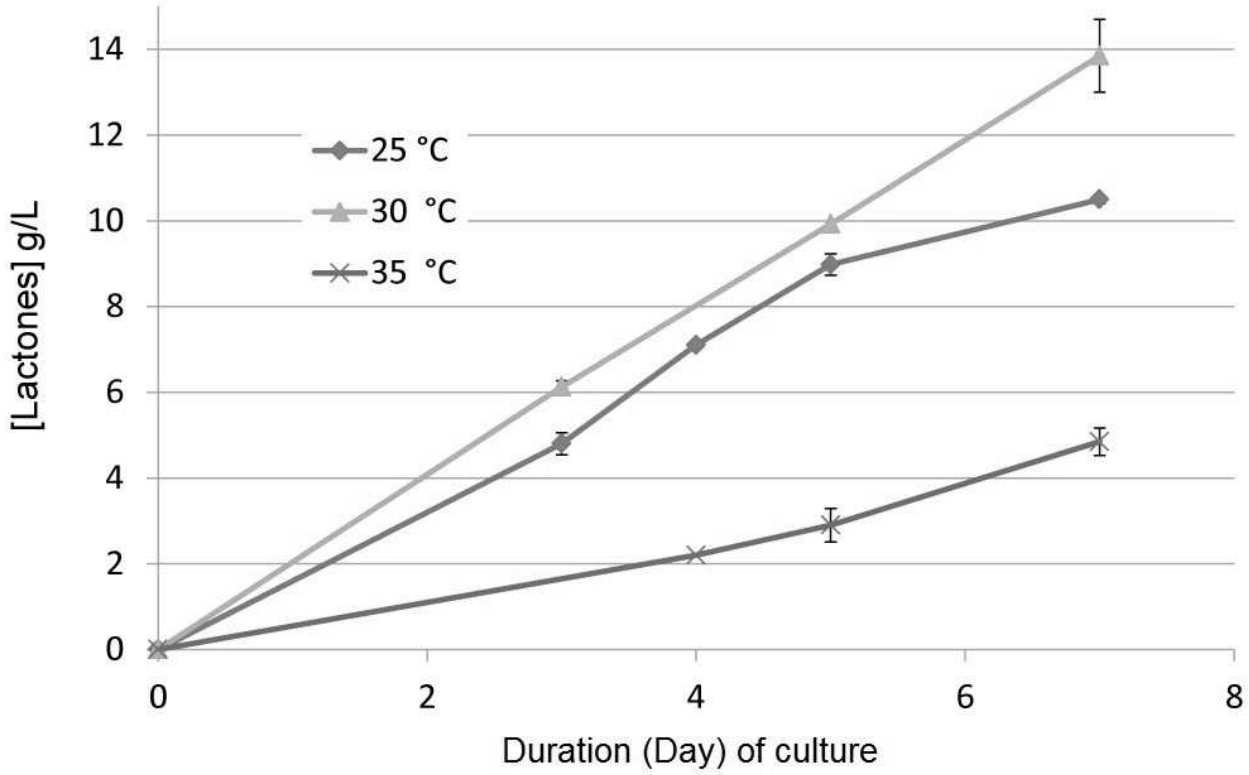

14
12
10
8
6
4
2
0
[Lactones] g/L
25 °C
30 °C
35 °C
0
2
4
6
8
Duration (Day) of culture

FIG. 4

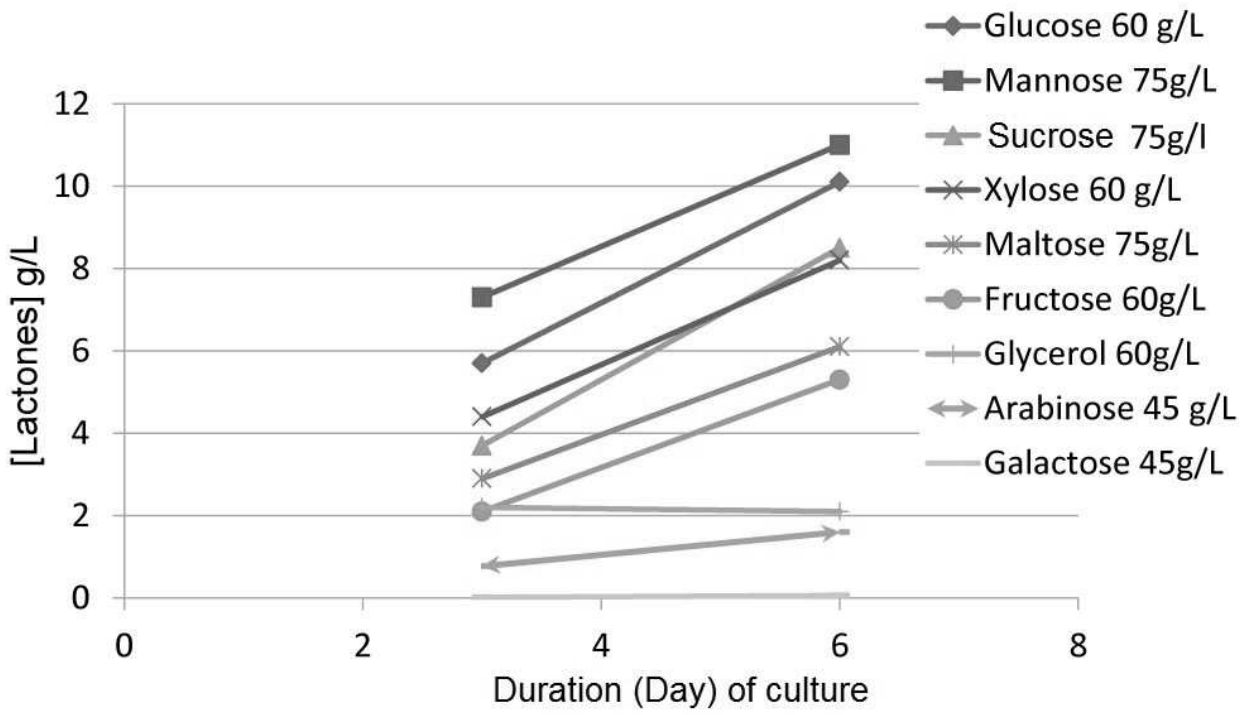

12
10
8
6
4
2
0
[Lactones] g/L
Glucose 60 g/L
Mannose 75g/L
Sucrose 75g/l
Xylose 60 g/L
Maltose 75g/L
Fructose 60g/L
Glycerol 60g/L
Arabinose 45 g/L
Galactose 45g/L
0
2
4
6
8
Duration (Day) of culture

FIG. 5

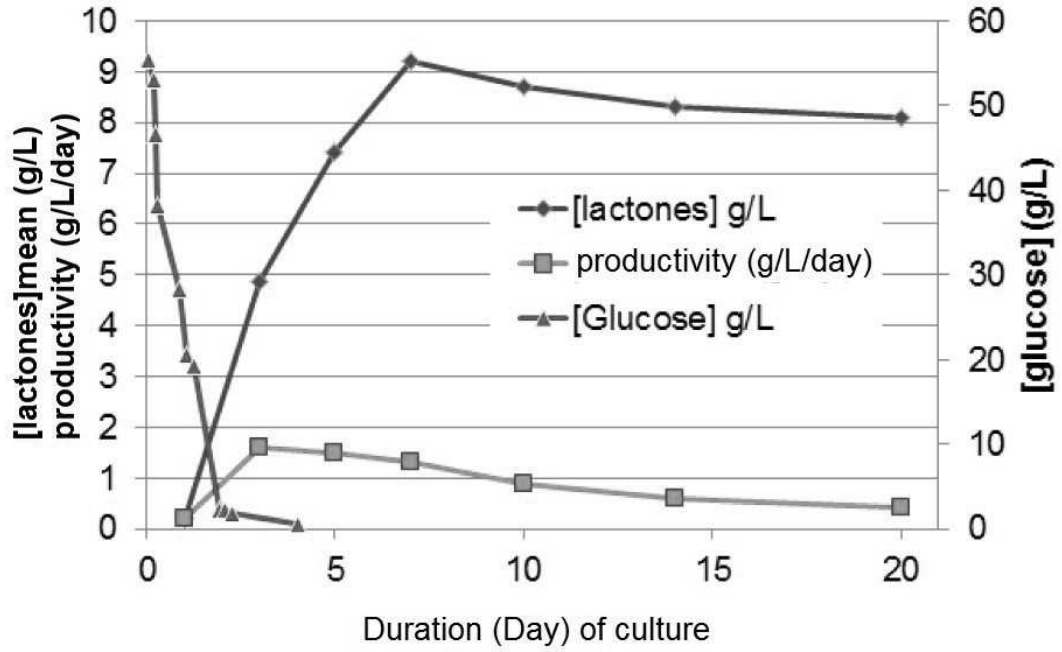

[lactones]mean (g/L)
productivity (g/L/day)
[glucose] (g/L)
[lactones] g/L
productivity (g/L/day)
[Glucose] g/L
Duration (Day) of culture

FIG. 6

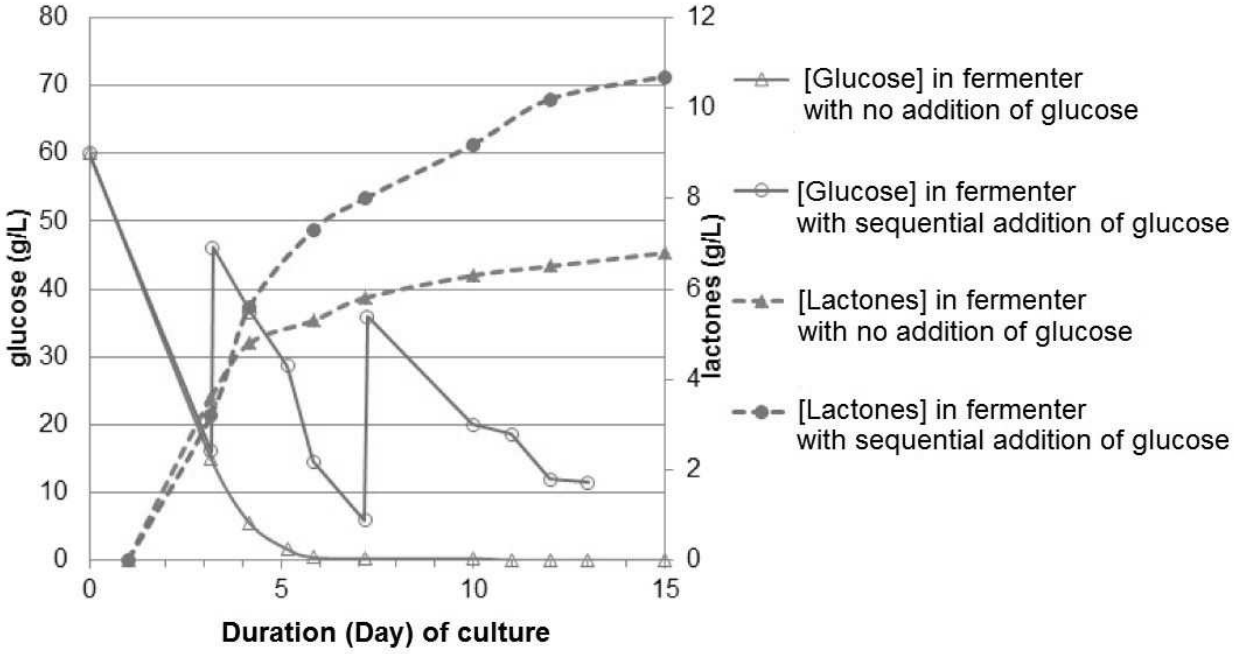

glucose (g/L)
lactones (g/L)
Duration (Day) of culture
[Glucose] in fermenter with no addition of glucose
[Glucose] in fermenter with sequential addition of glucose
[Lactones] in fermenter with no addition of glucose
[Lactones] in fermenter with sequential addition of glucose

FIG. 7