

Supplementary Materials: Galactooligosaccharide Production from *Pantoea anthophila* Strains Isolated from “Tejuino”, a Mexican Traditional Fermented Beverage

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Table S1. Operating variables and their levels in the factorial design

	Coded variables			Operating Variables		
Experiment	T	pH	U/mL	T (°C)	pH	U/mL
R1	-1	-1	-1	30	5.5	5
R2	-1	-1	1	30	5.5	15
R3	-1	1	-1	30	7.5	5
R4	-1	1	1	30	7.5	15
R5	1	-1	-1	50	5.5	5
R6	1	-1	1	50	5.5	15
R7	1	1	-1	50	7.5	5
R8	1	1	1	50	7.5	15
R9	0	0	0	40	6.5	10

Table S2. Factorial design experiments and yield obtained as response for *Pantoea anthophila* strains Bac 55.2 and Bac 69.1

	Bac 55.2			Bac 69.1		
Experiment	Yield 1	Yield 2	Yield 3	Yield 1	Yield 2	Yield 3
R1	0	0	0	0	0	0
R2	0	0	0	0	0	0
R3	0	0	0	0	0	0
R4	27.4	24.8	26.1	11.2	15	15
R5	34.6	37.4	30	39	32.5	36.6

R6	0	0	0	0	0	0
R7	0	0	0	0	0	0
R8	0	0	0	0	0	0
R9	0	0	0	0	0	0

Experiment	Operating Variables			Response Yield %	
	T °C	pH	U/mL	Bac 55.2	Bac 69.1
R1	30	5.5	5	0	0
R2	30	5.5	15	0	0
R3	30	7.5	5	0	0
R4	30	7.5	15	26	14
R5	50	7.5	15	34	36
R6	50	7.5	5	0	0
R7	50	5.5	15	0	0
R8	50	5.5	5	0	0
R9	40	6.5	10	0	0

Table S3. Analysis of Variance for yield obtained with Bac 55.2

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
A:T	52.9256	1	52.9256	2.73	0.1296
B:pH	1171.35	1	1171.35	60.37	0.0000
C:U/mL	1171.35	1	1171.35	60.37	0.0000
AB	52.9256	1	52.9256	2.73	0.1296
AC	52.9256	1	52.9256	2.73	0.1296
BC	1171.35	1	1171.35	60.37	0.0000
Blocks	1.68056	1	1.68056	0.09	0.7745
Total error	194.02	10	19.402		

Total (corr.)	3868.53	17			
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R-squared = 94.9847 percent

Table S4. Analysis of Variance for yield obtained with 69.1

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
A:T	47.9556	1	47.9556	2.06	0.1818
B:pH	1449.71	1	1449.71	62.27	0.0000
C:U/mL	1449.71	1	1449.71	62.27	0.0000
AB	47.9556	1	47.9556	2.06	0.1818
AC	47.9556	1	47.9556	2.06	0.1818
BC	1449.71	1	1449.71	62.27	0.0000
blocks	0.347222	1	0.347222	0.01	0.9052
Total error	232.812	10	23.2812		
Total (corr.)	4726.14	17			

R-squared = 95.074 percent