

Table S1. Cellular Fatty Acid Profiles (%) of bacterial strain

Characteristics	RA-1	RA-2	RA-3	RA-4	RA-5	RA-6	RA-7	RA-8	RA-9	RA-10
C _{10:0} 3OH	3.78	-----		3.65	0.06	2.6	-----	3.27	-----	-----
C _{12:0}	2.75	2.41	-----	5.66	0.44	5.18	0.19	5.21	-----	1.46
C _{12:0} 2OH	4.9	-----	-----	1.95	-----	3.11	-----	2.68	-----	1.35
C _{12:0} 3OH	4.85	-----	-----	3.7	-----	3.69	-----	4.16	-----	1.53
C _{14:0}	1.37	5.82	-----	-----	3.19	-----	1.59	0.55	3.55	1.51
C _{16:0}	30.19	25.84	7.41	28.11	5.52	27.16	9.18	29.95	17.73	15.96
C _{17:0}	-----	-----	-----	-----	0.36	-----	0.23	0.14	1.01	-----
C _{18:0}	-----	2.31	4.34	1.29	2.99	1.57	-----	2.69	11.56	2.63
Anteiso-C _{13:0}	-----	-----	-----	-----	1.21	-----	0.41	-----	-----	-----
Anteiso-C _{14:0}	1.04	-----	-----	-----	1.08	-----	0.4	-----	-----	-----
Anteiso-C _{15:0}	-----	-----	23.46	-----	4.89	-----	29.72	0.1	3.48	33.49
Anteiso-C _{17:0}	-----	-----	8.82	-----	1.98	-----	5.62	0.06	1.59	3.32
Anteiso 17:1 A	-----	-----	-----	-----	1.88	-----	-----	-----	-----	-----
Cyclo 17:0	7.61	5.61	-----	5.05	-----	3.86	-----	4.15	-----	2.07
iso-C _{13:0}	-----	-----	-----	-----	5.23	-----	0.21	-----	3.68	-----
iso-C _{14:0}	-----	-----	1.43	-----	3.58	-----	5.98	-----	4.86	2.19
iso-C _{15:0}	-----	-----	27.42	-----	28.5	-----	25.88	0.15	8.51	2.64
iso-C _{16:0}	-----	-----	5.62	-----	5.51	-----	4.64	-----	6.09	4.28
iso-C _{17:0}	-----	-----	10.31	-----	9.62	-----	4.04	0.04	5.44	-----
Iso C _{17:1} ω5c	-----	-----	-----	-----	4.16	-----	-----	-----	2.64	-----
iso C _{17:1} ω10c	-----	-----	-----	-----	1.54	-----	0.29	-----	1.34	-----
Cyclo _{19:0} ω8c	-----	1.35	-----	-----	-----	-----	-----	0.4	-----	-----
C _{15:1} ω5c	-----	-----	-----	-----	1.03	-----	0.09	-----	-----	-----
C _{16:1} ω11c	-----	-----	-----	-----	0.25	-----	1.28	-----	-----	-----
C _{18:1} ω9c	-----	-----	1.73	-----	-----	-----	1.48	0.29	4.24	1.56
Summed Feature 1	-----	-----	-----	-----	-----	-----	-----	0.21	1.12	-----
Summed Feature 2	-----	7.34	-----	-----	3.01	-----	-----	0.11	2.69	-----
Summed features 3	25.87	16.59	-----	21.68	6.99	24.31	0.22	28.05	6.08	10.31
Summed features 8	7.37	25.1	3.52	22.97	-----	24.26	1.39	15.27	2.8	9.8

Table S2. Biolog of bacterial strains

	24 hour									
	RA1	RA2	RA3	RA4	RA5	RA 6	RA7	RA 8	RA9	RA10
Water	-	-	-	-	-	-	-	-	-	-
α -Cyclodextrin	-	+	-	-	-	-	-	-	+	-
β -Cyclodextrin	-	+	-	W+	W+	+	-	W+	+	W+
Dextrin	W+	+	-	-	-	-	W+	-	+	-
Glycogen	+	+	-	+	-	+	+	+	+	+
Inulin	+	+	-	+	-	+	-	+	+	+
Mannan	-	+	-	-	-	-	W+	-	+	-
Tween 40	-	+	-	+	+	+	+	W+	+	+
Tween 80	-	+	-	-	+	-	+	-	+	+
N-Acetyl-D-Glucosamine	W+	+	W+	+	-	+	+	+	+	+
N-Acetyl- β -D-Mannosamine	-	+	-	+	-	+	+	+	+	+
Amygdalin	-	+	-	-	-	W+	-	-	-	-
L-Arabinose	-	+	-	-	-	-	W+	-	+	+
D-Arabitol	-	+	+	+	-	+	-	+	W+	+
Arbutin	-	+	-	-	-	-	-	-	-	-
D-Cellobiose	-	+	-	+	W+	+	W+	+	-	+
D-Fructose	-	+	-	-	-	-	+	-	W+	-
L-Fucose	-	+	-	+	-	+	-	+	-	+
D-Galactose	-	+	-	+	-	+	W+	+	-	+
D-Galacturonic Acid	-	+	-	-	-	-	-	-	-	-
Gentiobiose	-	+	-	-	-	-	+	-	-	-
D-Gluconic Acid	-	+	-	-	-	-	W+	-	-	-
α -D-Glucose	-	+	-	+	+	+	+	+	+	+
m-Inositol	-	+	-	+	-	+	-	+	+	+
α -D-Lactose	-	+	-	-	-	-	+	-	-	-
Lactulose	-	+	-	-	-	-	+	-	-	-
Maltose	-	+	-	-	+	-	+	-	+	-
Maltotriose	-	+	-	-	+	-	+	-	+	-
D-Mannitol	-	+	-	-	-	-	W+	-	-	-
D-Mannose	-	+	-	-	-	-	+	+	-	+
D-Melezitose	-	+	-	+	-	+	+	-	-	+
D-Melibiose	-	+	-	+	-	+	W+	+	-	+
α -Methyl-D-Galactoside	-	+	-	-	-	-	+	-	-	-
β -Methyl-D-Galactoside	-	+	-	-	-	-	W+	-	-	-
3-Methyl-D-Glucose	+	+	-	+	W+	+	+	+	+	+
α -Methyl-D-Glucoside	+	+	-	W+	-	+	+	+	-	W+
β -Methyl-D-Glucoside	+	+	-	+	-	+	+	+	+	+
α -Methyl-D-Mannoside	+	+	-	+	-	+	W+	+	-	+
Palatinose	+	+	-	+	-	+	+	+	-	+
D-Psicose	+	+	-	+	-	+	+	-	-	W+
D-Raffinose	-	+	-	-	W+	+	+	+	W+	+
L-Rhamnose	-	+	-	-	-	+	-	+	-	+
D-Ribose	-	+	+	+	W+	+	+	+	+	+
Salicin	-	+	-	+	W+	+	+	+	+	+
Sedoheptulosan	-	+	-	-	-	+	W+	+	-	+
D-Sorbitol	+	-	-	W+	W+	+	+	-	-	W+
Stachyose	+	+	-	+	-	+	W+	+	-	+
Sucrose	W+	+	-	-	W+	+	+	-	+	-
D-Tagatose	+	+	-	-	-	-	-	-	-	+
D-Trehalose	-	-	-	-	W+	-	+	-	+	+
Turanose	+	-	-	-	W+	+	+	-	-	+

Xylitol	-	-	-	+	-	+	-	+	-	+
D-Xylose	+	+	+	-	-	W+	+	-	-	W+
Acetic Acid	+	+	-	+	-	+	-	+	W+	+
α -Hydroxybutyric Acid	+	+	-	+	-	+	W+	+	-	+
β -Hydroxybutyric Acid	+	+	-	+	-	+	+	+	W+	+
γ -Hydroxybutyric Acid	-	-	-	+	W+	+	W+	+	+	+
p-Hydroxy-phenylacetic Acid	-	+	-	+	-	+	-	+	-	+
α -Ketoglutaric Acid	-	-	-	-	W+	-	W+	-	W+	-
α -Ketovaleric Acid	+	+	-	+	W+	+	+	+	+	+
Lactamide	+	+	+	+	-	+	+	+	-	+
D-Lactic AcidMethyl Ester	+	-	-	-	W+	W+	-	-	W+	-
L-Lactic Acid	-	+	-	W+	-	+	+	W+	-	W+
D-Malic Acid	+	+	-	+	-	+	-	+	-	+
L-Malic Acid	+	+	-	+	-	+	+	+	-	+
Pyruvic Acid Methyl Ester	+	+	-	+	-	+	-	+	-	+
Succinic AcidMono-MethylEster	-	+	-	+	-	+	-	+	-	+
Propionic Acid	+	+	-	+	-	+	-	+	W+	+
Pyruvic Acid	+	+	-	+	+	+	W+	+	+	+
Succinamic Acid	+	+	-	+	-	+	+	+	W+	+
Succinic Acid	-	+	-	-	-	-	+	-	+	-
N-Acetyl-L-GlutamicAcid	W+	+	-	+	-	+	W+	+	W+	+
L-Alaninamide	+	+	-	+	-	+	W+	+	+	+
D-Alanine	-	-	-	W+	-	+	+	+	-	+
L-Alanine	+	+	-	+	W+	+	+	+	-	+
L-Alanyl-Glycine	+	+	-	W+	W+	W+	+	-	+	+
L-Asparagine	+	+	-	-	-	-	+	-	-	-
L-Glutamic Acid	+	+	-	+	-	+	W+	+	+	+
Glycyl-L-Glutamic Acid	+	-	-	+	-	+	W+	+	+	+
L-Pyroglutamic Acid	W+	+	-	-	-	W+	W+	-	-	W+
L-Serine	W+	+	-	+	-	+	+	+	-	+
Putrescine	+	+	-	W+	W+	+	-	W+	-	+
2,3-Butanediol	-	-	-	+	W+	+	W+	+	-	W+
Glycerol	W+	-	-	+	-	+	+	+	+	+
Adenosine	+	+	-	+	-	+	+	+	+	+
2'-Deoxy Adenosine	-	+	-	+	W+	+	+	+	-	+
Inosine	-	+	-	+	W+	+	+	+	+	+
Thymidine	-	+	-	-	-	-	+	-	+	-
Uridine	W+	+	-	-	W+	-	-	-	+	-
Adenosine-5' Monophosphate	-	+	-	+	-	+	+	W+	+	-
Thymidine-5'-Monophosphate	-	-	-	+	-	+	W+	+	+	+
Uridine-5'-Monophosphate	-	-	-	-	W+	W+	+	-	-	-
D-Fructose-6-Phosphate	-	+	-	+	-	+	+	+	-	+
α -D-Glucose-1-Phosphate	-	+	-	+	-	+	W+	W+	W+	-
D-Glucose-6-Phosphate	-	+	-	-	-	-	W+	-	+	-
D-L- α -Glycerol Phosphate	-	+	-	-	-	-	+	-	+	-