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Supplementary Data

Table.1 - Digital DNA–DNA hybridization values obtained by sequence comparison of all studied genomes using TYGS second value

Subject strain	dDDH with Agrococcus massiliensis (in %)	C.I. (in %)	G+C content difference (in %)
<i>Agrococcus pavilionensis</i> RW1	52,4	[49.7 - 55.1]	0,29
<i>Agrococcus lahaulensis</i> DSM 17612	51,2	[48.5 - 53.8]	0,27
<i>Agrococcus sediminis</i> NS18	28,7	[26.3 - 31.2]	0,6
<i>Agrococcus carbonis</i> DSM 22965	27,3	[25.0 - 29.8]	0,72
<i>Agrococcus jenensis</i> DSM 9580	27	[24.6 - 29.5]	0,48
<i>Agrococcus baldri</i> NBRC 103055	26,3	[23.9 - 28.8]	0,16
<i>Agrococcus terreus</i> CGMCC 1.6960	25,1	[22.8 - 27.6]	1,65
<i>Agrococcus baldri</i> IAM 15147	25	[22.7 - 27.5]	1,1
<i>Agrococcus jejuensis</i> DSM 22002	20,5	[18.3 - 23.0]	0,37

Table.2. Cellular fatty acid composition (%) of *Agrococcus massiliensis*

Fatty acids	Name	Mean relative %^a
15:0 anteiso	12-methyl-tetradecanoic acid	65.8 ± 4.6
17:0 anteiso	14-methyl-Hexadecanoic acid	24.1 ± 3.4
15:0 iso	13-methyl-tetradecanoic acid	4.5 ± 0.1
16:0 iso	14-methyl-Pentadecanoic acid	3.0 ± 0.3
17:0 iso	15-methyl-Hexadecanoic acid	1.1 ± 0.3
16:0	Hexadecanoic acid	TR
14:0 iso	12-methyl-Tridecanoic acid	TR
18:1n9	9-Octadecenoic acid	TR
18:2n6	9,12-Octadecadienoic acid	TR
18:0	Octadecanoic acid	TR
15:0	Pentadecanoic acid	TR
13:0 iso	11-methyl-Dodecanoic acid	TR
18:1n7	11-Octadecenoic acid	TR
17:0	Heptadecanoic acid	TR
13:0 anteiso	10-methyl-Dodecanoic acid	TR
14:0	Tetradecanoic acid	TR

^aMean peak area percentage ; TR = trace amounts < 1 %

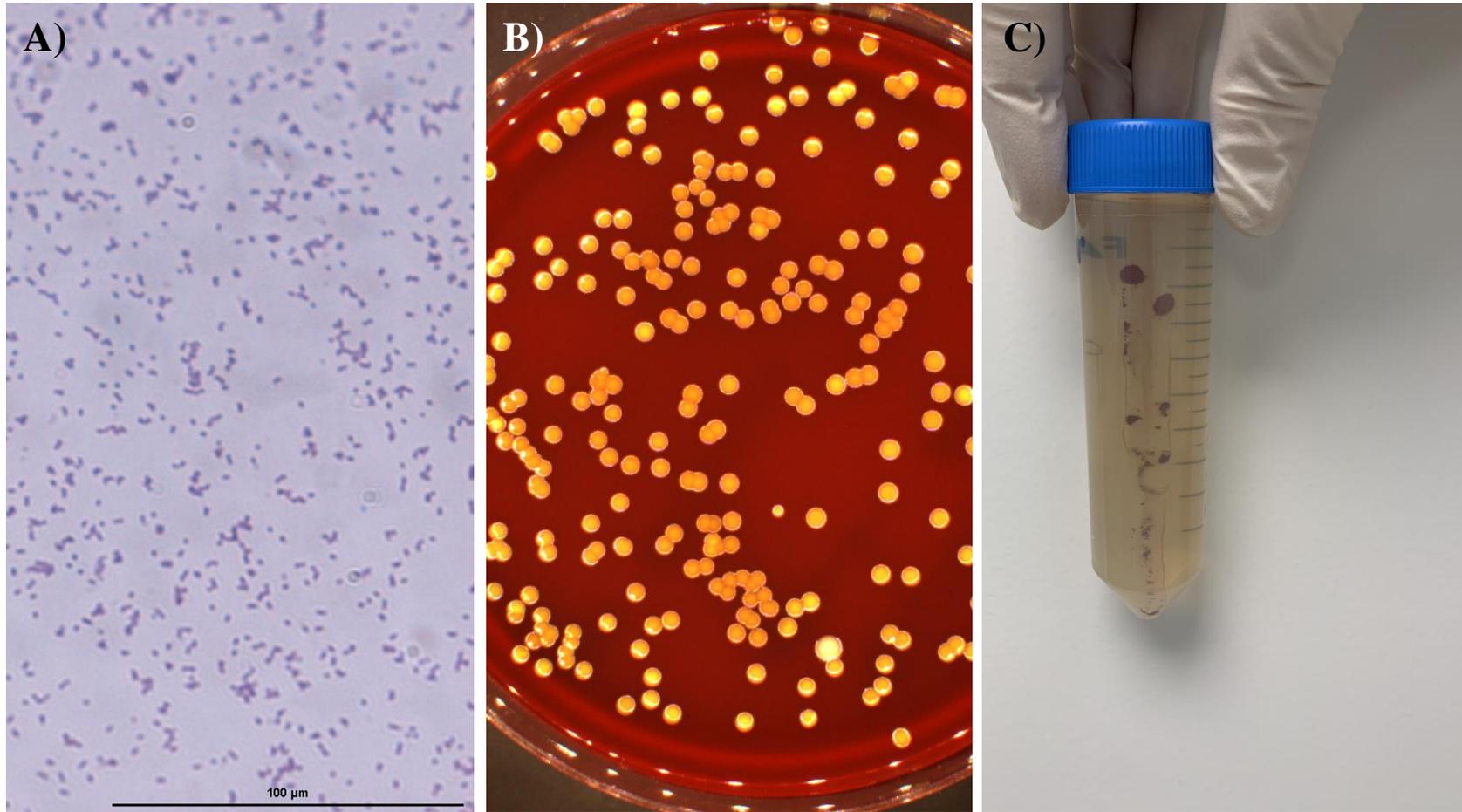


Figure 1 : Phenotypic characteristics of *Agrococcus massiliensis*
A) Gram staining B) Colonies C) Motility test

Table 3. Differential phenotypic characteristic of *Agrococcus massiliensis* and closely related species

	<i>A. massiliensis</i>	<i>A. jenensis</i>	<i>A. lahaulensis</i>	<i>A. pavilionensis</i>	<i>A. carbonis</i>
Properties	Marseille-Q4369	2002-39/1	K22-21	RW1	G4
Cell diameter (µm)	0.9 µm in diameter	0.7-1.0 x 0.7-1.7 µm	0.6-1.0 x 1.0-1.5 µm	0.5-0.7 µm	1.0–1.5 µm
Oxygen requirement	Facultative	Facultative	+	+	+
Gram Strain	+	+	+	+	+
Motility	-	-	-	NA	-
Endospore formation	-	NA	-	NA	-
Optimum temperature for growth (°C)	31°C	28°C	30°C	11-42°C	30°C
Production of :					
Alkaline phosphatase	-	NA	NA	NA	-
Catalase	+	+	+	+	+
Oxidase	-	-	-	-	-
α-Glucosidase	+	NA	NA	NA	+
β-galactosidase	-	NA	NA	+	NA
Acid from:					
N-Acetylglucosamine	-	NA	+	NA	NA
L-arabinose	-	+	+	-	+
D-ribose	-	-	+	+	+
D-mannose	-	-	-	+	+
D-mannitol	-	+	-	+	-
D-glucose	+	-	-	+	+
D-fructose	-	+	+	+	+
D-maltose	+	-	-	NA	+
D-lactose	-	-	-	NA	-
G+C content (mol%)	72.27	74	74.1	70.1	73.8
Habitat	Human healthy skin	Soil and sandstone surface	Soil	Microbialite	Soil of a coal mine

