

Taxa		<i>Thermooactinomyces</i>	<i>Thermoflavimicrobium</i>	<i>Laceyella</i>	<i>Seinonella</i>	<i>Mehercariomyces</i>	<i>Shimazuella</i>	<i>Desmospora</i>	<i>Planifilum</i>	<i>Lihuaxuella</i>	<i>Kroppenstedtia</i>	<i>Melghirimyces</i>	<i>Marininema</i>	<i>Polydomyces</i>
Characteristic														
Color of aerial mycelia		white	yellow	white	white	white	white	yellow	–	–	white	yellow	–	white
Dichotomously branched sporophores		–	+	–	–	–	–	–	–	–	–	–	–	–
Growth on novobiocin (25 µg/ml)		+	+	+	–	+	+	+	+	nd	+	nd	nd	+
Degradation of:	Gelatin	+	+	–	–	+	–	+	+	+	+	+	–	+
	Starch	–	–	–	–	–	+	+	+	–	–	–	–	–
Optimal temperature for growth °C		50-55	55	48-55	35	30	32	37-50	55-70	50	45	40-55	30	60
Diaminopimelic acid		meso-DAP	meso-DAP	meso-DAP	meso-DAP	meso-DAP	meso-DAP	meso-DAP	meso-DAP	meso-DAP	LL-DAP	LL-DAP	LL-DAP	meso-DAP
Predominant menaquinone		MK-7	MK-7	MK-9	MK-7	MK-9	MK-9	MK-7	MK-7	MK-7	MK-7	MK-7	MK-7	MK-7
Other menaquinones		MK-8 or MK-9	nr	MK-8 or MK-10	MK-8 or MK-9 or MK-10	MK-8	MK-10	nr	nr	nr	nr	MK-6, MK-8	nr	MK-8
Major fatty acids		iso-C <sub>15:0</sub> , anteiso-C <sub>15:0</sub>	iso-C <sub>15:0</sub> , anteiso-C <sub>15:0</sub> , iso-C <sub>16:0</sub>	iso-C <sub>15:0</sub> , anteiso-C <sub>15:0</sub>	iso-C <sub>14:0</sub> , anteiso-C <sub>15:0</sub> , iso-C <sub>16:0</sub>	iso-C <sub>15:0</sub> , iso-C <sub>17:1</sub> ω11c	anteiso-C <sub>15:0</sub> , iso-C <sub>16:0</sub> , anteiso-C <sub>17:0</sub>	iso-C <sub>15:0</sub> , C <sub>16:0</sub> , iso-C <sub>17:0</sub>	iso-C <sub>17:0</sub> , anteiso-C <sub>17:0</sub> , iso-C <sub>15:0</sub> or C <sub>16:0</sub>	iso-C <sub>15:0</sub> , anteiso-C <sub>15:0</sub> , anteiso-C <sub>17:0</sub>	iso-C <sub>15:0</sub> , anteiso-C <sub>15:0</sub>	anteiso-C <sub>15:0</sub> , iso-C <sub>15:0</sub>	iso-C <sub>15:0</sub> , iso-C <sub>17:0</sub> , iso-C <sub>16:0</sub> , C <sub>16:0</sub>	
Polar lipids components		nd	nd	DPG, PE, PG, PI, PIM	nd	nd	PE	DPG, PG, PE, PME	nd	DPG, PG, PME, PE, APL	DPG, PG, PE	PG, DPG, PE, PME, PL	DPG, PME, PE, PG, PL	DPG, PE, PME, PG, PS
DNA G+C content (mol%)		48.0	43.0	47.9-49	40	45.0	39.4	49,3	56.8-60.3	55.6	54.6	47.3	46.5	55.1
16rRNA gene signature nucleotides at positions	154:167	U-G	U-G	U-U	U-A	C-A	U-G	U-G	U-A	A-U	U-G	C-A	U-A	nd
	203:214	A-G	A-C	-C	A-U	A-C	A-U	A-A	U-C	G-G	A-C	A-C	A-G	nd
	693	G	G	G	G	G	G	G	G	U	G	G	G	nd

Data from: Addou et al. 2012; Chen et al. 2012; Hatayama et al. 2005; Li et al. 2012; Matsuo et al. 2006; Park et al. 2007; Tsubouchi et al. 2013; von Jan et al. 2011; Yassin et al. 2009; Yoon et al. 2005; Yu et al. 2012; Zhang et al. 2007; Zhang et al. 2010

nr not recorded, nd no data, + positive reaction, – negative reaction, v variable, meso-DAP meso-diaminopimelic acid, LL-diaminopimelic acid, APL aminophospholipid, DPG diphosphatidylglycerol, PE phosphatidylethanolamine, PG phosphatidylglycerol, PI phosphatidylinositol, PIM phosphatidylinositolmannosides, PL unknown phospholipid, PME phosphatidyl-monomethylethanolamine