

Table 1 | *D. oralis* physiological characteristics compared to related species of the *Desulfobulbus* genus

Characteristic	<i>D. oralis</i>	<i>D. oligotrophicus</i>	<i>D. propionicus</i>	<i>D. elongatus</i>	<i>D. rhabdoformis</i>	<i>D. japonicus</i>
Source	Human subgingival sample	Municipal sewage sludge	Anoxic freshwater ditch	Industrial digester	Water-oil separations system	Estuarine sediment
Cell shape	Rod-shaped	Oval-rods	Lemon-shaped	Rod-shaped	Rod-shaped	Rod-shaped
Motility	-	+	-	+	-	+
Growth conditions:						
Temperature (°C)	37°C	35°C	39°C	35°C	31°C	35°C
pH	7.1	7.6	7.2	7.0	6.8-7.2	6.7
Utilization of electron donors:						
Lactate	+	+	+	+	+	+
Pyruvate	+	+	+	+	+	+
Propionate	-	+	+	+	+	+
Acetate	-	-	-	-	-	-
Malate	-	-	-	-	+	+
Ethanol	-	-	+	+	+	+
Propanol	-	-	+	+	+	+
Formate	-	-	-	-	-	+
Succinate	-	-	-	-	+	-
Fumarate	-	-	-	-	+	+
Glucose	-	-	-	-	ND	+
Fructose	-	-	-	-	ND	+
H₂ + CO₂ Acetate	-	-	+	+	+	+
Utilization of electron acceptors						
Sulfate	+	+	+	+	+	+
Thiosulfate	+	+	+	+	+	+
Sulfite	-	+	+	+	+	-
Nitrate	-	-	+	-	-	ND
Utilization of substrates in the absence of electron acceptors:						
Pyruvate	+	+	+	+	+	+
Lactate	-	+	+	+	+	+
Glucose	-	ND	ND	ND	ND	+
DNA G+C content (mol%)	59.8	51.7	58.9	59	50.6	48.6
Genome size (Mbp)	2.8	ND	3.8	3.9	ND	5.8
Genome status	complete	ND	complete	draft	ND	draft
Isolation Reference	This study	El Houari, 2017	Widdel, 1982	Samain, 1984	Lien, 1998	Suzuki, 2007