

***Anoxybacter fermentans* gen. nov., sp. nov., a piezophilic thermophilic anaerobic fermentative bacterium isolated from a deep-sea hydrothermal vent**

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NEW TAXA: Bacteria, Firmicutes and Related Organisms

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Abbreviation: AQDS, 9,10-anthraquinone-2,6-disulfonate

The GenBank/EMBL/DDBJ accession number for the 16S rRNA sequence of strain DY22613^T is KC794015.

Supplementary Table S1. Major fatty acid compositions (%) of strain DY22613^T and its closest relative *Halothermothrix orenii* H168^T

Fatty acid	Strain DY22613 ^T	<i>H.oreonii</i> H168 ^T
Iso-C _{11:0}	1.11	-
C _{12:0}	1.47	-
C _{13:0}	-	2.29
Iso-C _{13:0}	2.24	-
Anteiso-C _{13:0}	0.48	-
C _{13:1}	1.62	-
C _{14:0}	7.36	7.96
Iso-C _{14:0}	-	1.54
3-OH iso-C _{14:0}	20.61	-
2-OH C _{14:0}	2.52	-
C _{15:0}	-	1.57
Iso-C _{15:0}	36.26	54.3
Anteiso-C _{15:0}	3.49	9.79
C _{16:0}	2.4	9.94
Iso-C _{16:0}	-	2.68
C _{17:0}	-	0.35
Iso-C _{17:0}	-	4.99
Anteiso-C _{17:0}	-	2.34
C _{17:1} ω 9 _c	0.86	-
C _{18:1} ω 9 _c	1.44	-
C _{18:0}	0.73	1.22
Iso-C _{18:0}	-	0.20
Iso-C _{19:1}	0.87	-