Title	Thiomicrorhabdus immobilis sp. nov., a mesophilic sulfur-oxidizing bacterium isolated from sediment of a brackish lake in northern Japan
Author(s)	Kojima, Hisaya; Mochizuki, Jun; Kanda, Mamoru; Watanabe, Tomohiro; Fukui, Manabu
Citation	Archives of Microbiology, 204(10), 605 https://doi.org/10.1007/s00203-022-03221-0
Issue Date	2022-09-07
Doc URL	http://hdl.handle.net/2115/90349
Rights	This version of the article has been accepted for publication, after peer review (when applicable) and is subject to Springer Nature 's AM terms of use, but is not the Version of Record and does not reflect post-acceptance improvements, or any corrections. The Version of Record is available online at: https://doi.org/10.1007/s00203-022-03221-0
Туре	article (author version)
Additional Information	There are other files related to this item in HUSCAP. Check the above URL.
File Information	Supp220819.pdf (Supplementary file)



Thiomicrorhabdus immobilis sp. nov., a mesophilic sulfur-oxidizing bacterium isolated from sediment of a brackish lake in northern Japan

Hisaya K	ojima ^{1*}	, Jun Mochizuki ^{1,2}	Mamoru Kanda ^{1,2}	Tomohiro	Watanabe ¹	and Manabu Fukui ¹
----------	---------------------	--------------------------------	-----------------------------	----------	-----------------------	-------------------------------

¹ The Institute of Low Temperature Science, Hokkaido University, Sapporo, Japan

² Graduate School of Environmental Science, Hokkaido University, Sapporo, Japan

^{*}Corresponding author. E-mail: kojimah@pop.lowtem.hokudai.ac.jp

Table S1. Cellular fatty acid profile of strain Am19^T grown on thiosulfate at 30°C. Summed features consist of fatty acids that could not be separated, as follows: Summed feature 1, iso-C_{15:0} H and/or C_{13:0} 3OH; summed feature 2, C_{12:0} aldehyde, unknown 10.928 , C_{14:0} 3-OH and/or iso-C16:1 I; summed feature 3, C_{16:1} ω 7c and/or C_{16:1} ω 6c; summed feature 8, C_{18:1} ω 7c and/or C_{18:1} ω 6c.

Fatty acid	%
C9:0	0.06
C _{10:0}	0.79
C _{10:0} 3OH	0.36
C _{12:0}	0.24
C _{14:0}	0.57
C _{15:1} ω6c	0.18
C _{16:1} ω5c	0.26
C _{16:0}	13.74
C _{17:1} ω8c	0.65
C _{17:1} ω6c	1.25
C _{17:0}	1.02
C _{18:1} ω5c	0.52
$C_{18:0}$	1.04
$C_{18:1}$ $\omega7c$ 11-methyl	0.09
C _{20:1} ω7c	0.13
Summed feature 1	0.05
Summed feature 2	0.21
Summed feature 3	45.97
Summed feature 8	32.86

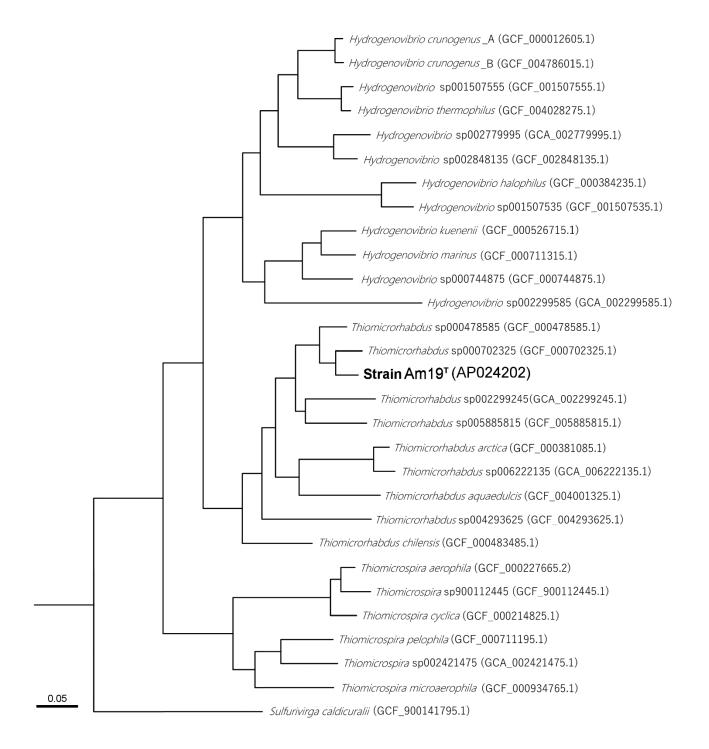


Fig. S1. Genome-based phylogenetic tree showing position of strain Am19^T in the GTDB taxonomy. The strain was placed in the bac120 tree of GTDB, by using the GTDB-tk.

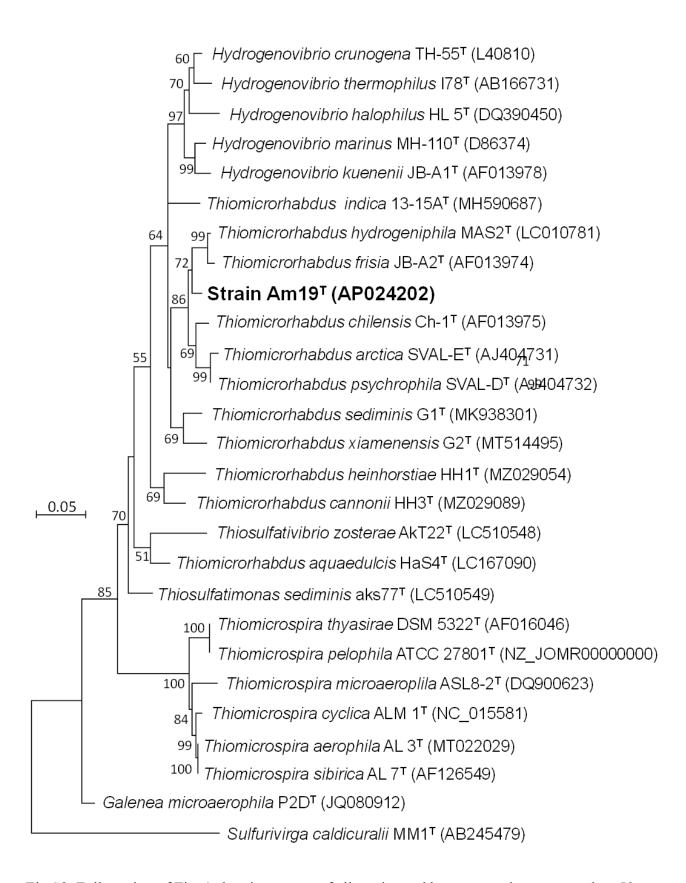


Fig S2. Full version of Fig. 1 showing names of all entries and bootstrap values greater than 50.