

Outline

Abstract

Keywords

Description of *A. cloacae* sp. nov.

Description of *A. suis* sp. nov.

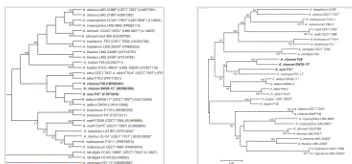
Acknowledgments

Appendix A. Supplementary data

References

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Extras (4)

 Slideshow

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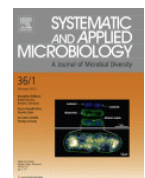
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Systematic and Applied Microbiology

Volume 36, Issue 1, February 2013, Pages 22-27



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Species isolated from food and sewage

Arturo Levican ^a , Luis Collado ^b , María José Figueras ^a  [Show more](#)<https://doi.org/10.1016/j.syapm.2012.11.003>[Get rights and content](#)

Abstract

Three strains recovered from mussels (F26), sewage (SW28-13^T) and pork meat (F41^T) were characterized as *Arcobacter*. They did not appear to resemble any known species on the basis of their 16S rDNA-RFLP patterns and the *rpoB* gene analyses. However, strains F26 and SW28-13^T appeared to be the same species. The 16S rRNA gene sequence similarity of strains SW28-13^T and F41^T to the type strains of all other *Arcobacter* species ranged from 94.1% to 99.6% and 93.4% to 98.8%, respectively. Phenotypic characteristics and the DNA–DNA hybridization (DDH) results showed that they belonged to 2 new *Arcobacter* species. A multilocus phylogenetic analysis (MLPA) with the concatenated sequences of 5 housekeeping genes (*gyrA*, *atpA*, *rpoB*, *gyrB* and *hsp60*) was used for the first time in the genus, showing concordance with the 16S rRNA gene phylogenetic analysis and DDH results. The MALDI-TOF mass spectra also discriminated these strains as two new species. The names proposed for them are *Arcobacter cloacae* with the type strain SW28-13^T (=CECT 7834^T = LMG 26153^T) and *Arcobacter suis* with the type strain F41^T (=CECT 7833^T = LMG 26152^T).

Keywords

Arcobacter; Food; Sewage; MLPA; *gyrA*-*atpA*-*rpoB*-*gyrB*-*hsp60*; MALDI-TOF

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- ☆ The GenBank/EMBL/DDBJ accession numbers of the sequences of strain SW28-13^T, F26 and F41^T, for the 16S rRNA gene are [HE565360](#), [HE565361](#) and [FJ573216](#), respectively, while the *gyrA*, *atpA*, *rpoB*, *gyrB* and *hsp60* genes of all *Arcobacter* strains included are [JF802986](#) to [JF803234](#) and [HE997169](#) to [HE997171](#).

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