Register list for Arenidesulfomonas baltica gen. nov. sp. nov. and their lineage

Submitted by Hassenrueck, Christiane

Order *Arenidesulfomonadales*

Etymology
[A.re.ni.de.sul.fo.mo.na.da'les] **N.L. fem. n.** *Arenidesulfomonas*, referring to the type genus *Arenidesulfomonas*; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Arenidesulfomonadales*, the *Arenidesulfomonas* order

Nomenclatural type
Genus *Arenidesulfomonas*

Description
The order *Arenidesulfomonadales* is defined based on its type family *Arenidesulfomonadaceae*.

Classification
Bacteria » *Nitrospirota* » *Thermodesulfovibrionia* » *Arenidesulfomonadales*

References
Effective publication: Piontek et al., 2026 [1]

Registry URL
https://seqco.de/i:56279

Family *Arenidesulfomonadaceae*

Etymology
[A.re.ni.de.sul.fo.mo.na.da'ce.ae] **N.L. fem. n.** *Arenidesulfomonas*, referring to the type genus *Arenidesulfomonas*; *-aceae*, ending to denote a family; **N.L. fem. pl. n.** *Arenidesulfomonadaceae*, the *Arenidesulfomonas* family

Nomenclatural type
Genus *Arenidesulfomonas*

Description
The family *Arenidesulfomonadaceae* is defined based on its type genus *Arenidesulfomonas*.

Classification
Bacteria » *Nitrospirota* » *Thermodesulfovibrionia* » *Arenidesulfomonadales* » *Arenidesulfomonadaceae*

References
Effective publication: Piontek et al., 2026 [1]

Registry URL
https://seqco.de/i:56280

Genus *Arenidesulfomonas*

Etymology
[A.re.ni.de.sul.fo.mo'nas] **L. fem. n.** *arena*, sand; **N.L. pref.** *desulfo-*, desulfuricating, here referring to sulfate reduction; **L. fem. n.** *monas*, a single unit; **N.L. fem. n.** *Arenidesulfomonas*, sulfate reducer occurring in sands

Nomenclatural type
Species *Arenidesulfomonas baltica*[Ts]

Description
The genus *Arenidesulfomonas* is defined based on its nomenclatural type *Arenidesulfomonas baltica* that is represented by a MAG from sandy sediments in the Baltic Sea involved in sulfate reduction.

Classification
Bacteria » *Nitrospirota* » *Thermodesulfovibrionia* » *Arenidesulfomonadales* » *Arenidesulfomonadaceae* » *Arenidesulfomonas*

References
Effective publication: Piontek et al., 2026 [1]

Registry URL
https://seqco.de/i:56281

Species *Arenidesulfomonas baltica*[Ts]

Etymology
[bal.ti'ca] **N.L. fem. adj.** *baltica*, pertaining to the Baltic Sea or Baltic region

Nomenclatural type
Genome sc|0006085 [Ts]

Description
The MAG of *Arenidesulfomonas baltica* was reconstructed from sediment metagenomes from the Odra Bank in the Baltic Sea (salinity 5-8 psu). Metatranscriptomic analyses showed that *Arenidesulfomonas baltica* plays a crucial role in sulfate reduction in the sandy sediments at this location.

Classification
Bacteria » *Nitrospirota* » *Thermodesulfovibrionia* » *Arenidesulfomonadales* » *Arenidesulfomonadaceae* » *Arenidesulfomonas* » *Arenidesulfomonas baltica*[Ts]

References
Effective publication: Piontek et al., 2026 [1]

Registry URL
https://seqco.de/i:56278

References

1. Piontek et al. (2026). A novel *Thermodesulfovibrionia* lineage largely supports sulfate reduction in sandy sediments of the southern Baltic Sea. *ISME Communications*. DOI: 10.1093/ismeco/ycag255

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List **seqco.de/r:_yq8wyy8** submitted by **Hassenrueck, Christiane** and including 4 new names has been successfully validated.

Date of Priority: 2026-10-14 03:29 UTC
DOI: 10.57973/seqcode.r:_yq8wyy8