

Table 1 Characteristic of *T. delicata* Aio compared with Aio from other mesophilic organisms

Source	K_m (μM)	V_{max} (U mg^{-1})	References
<i>Thiomonas delicata</i>	14.2	4	This study
<i>Alcaligenes faecalis</i>	8	2.88	Anderson et al. (1992)
<i>Arthrobacter</i> sp. 15b	26	2.45	Prasad et al. (2009)
<i>Rhizobium</i> sp. NT-26	61	2.4	Santini and vanden Hoven (2004)

One unit of enzyme activity is defined as the amount of enzyme necessary to oxidize 1 μmol of arsenite per min using DCPIP as electron acceptor under the assay conditions

Anderson GL, Williams J, Hille R (1992) The purification and characterization of arsenite oxidase from *Alcaligenes faecalis*, a molybdenum-containing hydroxylase. *J Biol Chem* 267:23674–23682

Prasad KS, Subramanian V, Paul J (2009) Purification and characterization of arsenite oxidase from *Arthrobacter* sp. *Biometals* 22:711–721. doi:[10.1007/s10534-009-9215-6](https://doi.org/10.1007/s10534-009-9215-6)

Santini JM, vanden Hoven RN (2004) Molybdenum-containing arsenite oxidase of the chemolithoautotrophic arsenite oxidizer NT-26. *J Bacteriol* 186:1614–1619. doi:[10.1128/jb.186.6.1614-1619.2004](https://doi.org/10.1128/jb.186.6.1614-1619.2004)