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Growth of sulfate-reducing bacteria and methanogenic archaea with methylated sulfur compounds: a commentary on the thermodynamic aspect

Published online: 1 February 2003
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Arch Microbiol (2003) DOI 10.1007/s00203-002-0509-0

An incorrect version of Table 7 was printed. The correct version is supplied below.

Table 7 The calculated γ_d , D_s^{01}/R_{Ax} and Y_{DX} for reactions involved in the sulfidogenic and methanogenic degradation of various methylated sulfur compounds

S-compound	Reaction	γ_d^a degree of reduction	D_s^{01}/R_{Ax}^b kJ/ C-mol biomass	Y_{DX}^c (C-mol biomass/ C-mol S_x)
Dimethylsulfide	1	7	1011	0.045
Dimethylsulfoniopropionate	4	7	1011	0.027
3-S-methylmercaptopropionate	5	7	1011	0.011
Methanethiol	7	7	1011	0.055
Dimethylsulfide	8	7	1011	0.035
3-S-methylmercaptopropionate	12	7	1011	0.008
Methanethiol	15	7	1011	0.033

^aDegree of reduction of electron donor was calculated according to J.J. Heijnen (personal communication, 2002, Delft University of Technology, The Netherlands)

^b D_s^{01}/R_{Ax} was calculated according to Heijnen and Van Dijken (1992)

^c Y_{DX} was calculated from D_s^{01}/R_{Ax}^b

The online version of the original article can be found
at <http://dx.doi.org/10.1007/s00203-002-0509-0>

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