

Methanobacterium limaniae sp. nov. and Methanocella ebodensis sp. nov.

Submitted by Tian, Weitao

Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Species <i>Methanobacterium limaniae</i>	[li.ma'ni.æ] N.L. gen. n. <i>limaniae</i> , of a Liman, referring specifically to the Liman irrigation systems employed in the Negev Desert	Phylogenetically affiliated with the genus <i>Methanobacterium</i> , phylum <i>Methanobacteriota</i> . The genome consists of one circular chromosome of 3,168,381 bp. The DNA G + C content is 33.45 mol%. Strain <i>Methanobacterium limaniae</i> EP was cultivated from biocrust of the Negev desert, Israel. Soil hydrogenotrophic methanogen with a rod-shaped morphology. Cells are slender and elongated, typically measuring ~0.5 µm in diameter and 4-5 µm in length. The strain was routinely cultured with 80% H ₂ at 32°C in DSM17711 medium.	<i>Methanobacterium</i>	NCBI Assembly: GCA_049677355.1 Ts	seqco.de/i:50974
Species <i>Methanocella ebodensis</i>	[e.bo.den'sis] N.L. fem. adj. <i>ebodensis</i> , of Eboda, a significant ancient Nabataean city situated along the "Incense Route", close to the location where the strain was isolated.	Phylogenetically affiliated with the genus <i>Methanocella</i> , phylum <i>Halobacteriota</i> . The genome consists of one circular chromosome of 3,614,771 bp. The DNA G + C content is 54.73 mol%. Strain <i>Methanocella ebodensis</i> WT was cultivated from biocrust of the Negev desert, Israel. Soil hydrogenotrophic methanogen with a rod-shaped morphology. Cells typically measure ~0.8 µm in diameter and 7-8 µm in length. The strain was routinely cultured with 10% H ₂ at 37°C in fresh water basal medium and subjected to 5% air regularly.	<i>Methanocella</i>	NCBI Assembly: GCA_049676595.1 Ts	seqco.de/i:50976