

Pseudomonas edsoni sp. nov. and Pseudomonas acericola sp. nov.

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

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Species <i>Pseudomonas acericola</i>	[a.ce.ri'co.la] L. neut. n. <i>acer</i> , the maple tree; L. fem. suff. - <i>cola</i> , dweller, inhabitant; N.L. fem. n. <i>acericola</i> , maple dweller	<i>Pseudomonas acericola</i> sp. nov. is a member of the <i>Pseudomonas fluorescens</i> subgroup, isolated from maple sap (<i>Acer saccharum</i>) in Quebec, Canada. The genome size is approximately 6.18 Mbp with a GC content of 61.37%. Phylogenomic analysis places this species in a distinct clade, with ANI values below 95% and dDDH values below 70% compared to all known type strains. Diagnostic genomic traits include: Presence of multiple nonribosomal peptide synthetase (NRPS) clusters for cyclic lipopeptides, Presence of quorum-sensing related homoserine lactone (HSL) clusters, with partial similarity to known polyketide and cepacin A clusters; Presence of a terpene and a microcin biosynthetic gene cluster; Absence of phenazine biosynthetic operons, distinguishing it from <i>P. edsoni</i> .	<i>Pseudomonas</i>	NCBI Assembly: GCA_053456465.1 Ts	seqco.de/i:55780
Species <i>Pseudomonas edsoni</i>	[ed.so'ni] N.L. gen. n. <i>edsoni</i> , of Edson, in honor of H.A. Edson, who conducted pioneering work on the microbiology of maple sap in the early 20th century	<i>Pseudomonas edsoni</i> sp. nov. belongs to the <i>Pseudomonas fluorescens</i> subgroup and was isolated from maple sap (<i>Acer saccharum</i>) in Quebec, Canada. The genome size ranges from 6.5–6.6 Mbp with a GC content of ~60.6%. The species is phylogenetically distinct, forming a separate clade supported by ANI values >95% among its members and <95% to other species, and dDDH <70% with all known type strains. Diagnostic genomic traits include: Presence of a conserved phenazine biosynthetic operon (phzABCDEFGF); Multiple nonribosomal peptide synthetase (NRPS) clusters for cyclic lipopeptides; Genes for hydrogen cyanide (hcnABC) production, often in hybrid clusters with NRPS and metallophore genes; Type VI secretion system (T6SS) gene clusters.	<i>Pseudomonas</i>	NCBI Assembly: GCA_053456185.1 Ts	seqco.de/i:55781