

Supporting Information

Conjugative transfer of dioxin-catabolic megaplastids and bioaugmentation prospects of a *Rhodococcus* sp.

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Summary

Supporting information contains Table S1-S2 and is available free of charge on the ACS Publication Website. Tables report conjugative transfer of pDF01 and pDF02 from *Rhodococcus* sp. strain p52 to different recipients (S1) and transconjugants obtained from the activated sludge bacteria (S2).

Table S1. Conjugative transfer of pDF01 and pDF02 from *Rhodococcus* sp. strain p52 to different recipients

Recipient strains	Transconjugation frequency	Plasmid transfer and plasmid stability	Sources
<i>Rhodococcus rhodochrous</i>	1.8×10^{-7}	pDF01, pDF02; unstable*	CGMCC 4.1147
<i>Rhodococcus erythropolis</i>	2.6×10^{-7}	pDF01, pDF02; unstable*	CGMCC 1.2362
<i>Bacillus subtilis</i>	—	—	CGMCC 1.1468
<i>Bacillus cereus</i>	2.0×10^{-6}	pDF01, pDF02; unstable*	Reference 13
<i>Terrabacter tumescens</i>	—	—	CGMCC 1.2032
<i>Pseudomonas aeruginosa</i>	3.5×10^{-4}	pDF01, pDF02; stable	CGMCC 1.1129
<i>Pseudomonas fluorescens</i>	2.4×10^{-7}	pDF01, pDF02; unstable*	CGMCC 1.6279
<i>Micrococcus luteus</i>	—	—	CGMCC 1.1848

*plasmid unstable: no-growth on selective plate after 1- or 2-times transfer in LB broth or in dibenzofuran-supplemented mineral medium

Table S2. Transconjugants obtained from the activated sludge bacteria

Transconjugants	Description	16S rRNA gene accession number
ASB3	<i>Klebsiella oxytoca</i>	KY927494
ASB4	<i>Klebsiella</i> sp.	KY927507
ASB5	<i>Pseudomonas aeruginosa</i>	KY930328
ASB7	<i>Pseudomonas</i> sp.	KY927519
ASB9	<i>Arthrobacter</i> sp.	KY938039
ASB10	<i>Glutamicibacter nicotianae</i>	KY938043