

Table S1 General characteristics of isolated strains

Strain properties	<i>Pandora</i> <i>norimbergensis</i> LD001	<i>Pseudomonas</i> sp. LD002	<i>Bacillus</i> sp. LD003
Shape of cells	Rods	Rods	Rods
Width of cells (µm)	0,7 – 0,8	0,7 – 0,8	0,9 – 1,1
Length of cells (µm)	2,0 – 3,5	2,5 -> 5,0	2,0 – 4,5
Gram reaction	Gram negative	Gram negative	Gram positive
Motility	+	+	+
Oxidase	+	+	+
Catalase	+	+	+
ADH	+	+	ND
Urease	-	-	ND
Lysis by 3% KOH	+	+	ND
Aminopeptidase	+	+	ND
Lecithinase	ND	+	+
Levan from sucrose	ND	+	ND
Indole reaction	ND	ND	-
Phenylalaninedesaminase	ND	ND	-
Arginine dihydrolase	ND	ND	-
Denitrification	-	-	NO ₂ from NO ₃
Hemolysis	ND	ND	+
Fluorescent pigments	ND	+	ND
VP reaction	ND	ND	+
pH in VP broth	ND	ND	4.9
Anaerobic growth	ND	ND	+
Negative growth	42°C	41°C	50°C
Growth on <i>Pseudomonas</i> Isolation Agar (PIA)	Confluent growth	Light growth	ND
Growth in medium pH 5.7	ND	ND	+
Growth in lysozyme broth	ND	ND	+
Growth in 2 – 7% NaCl	ND	ND	+
Growth on LB agar + antibiotic after 1 day:			
10 µg/ml tetracycline	+	-	-
30 µg/ml tetracycline	-	-	-
10 µg/ml gentamycin	+	-	-
25 µg/ml gentamycin	+	-	-
100 µg/ml ampicillin	+	+	+
5 µg/ml kanamycin	+	-	+
50 µg/ml kanamycin	+	-	-
5 µg/ml erythromycin	+	+	-
10 µg/ml kanamycin	+	+	-
50 µg/ml kanamycin	+	+	-
10 µg/ml chloramphenicol	+	+	-
100 µg/ml spectinomycin	ND	ND	+

200 µg/ml spectinomycin	ND	ND	-
Hydrolysis of:			
gelatine	+	+	+
esculin	-	-	+
casein	-	ND	+
starch	ND	ND	+
Tween 80	ND	ND	-
Utilization of:			
glucose	-	+	+
phenylacetate	+	-	ND
citrate	+	+	+
malate	+	+	ND
mannose	-	+	ND
mannitol	-	+	- for acid from D-mannitol
gluconate	+	+	ND
maltose	-	-	ND
trehalose	-	-	ND
citraconate	-	-	ND
adonitol	-	ND	ND
m-hydroxybenzoate	+	ND	ND
arabinose	-	+	- for acid from L-arabinose
mesaconate	+	ND	ND
ribose	-	ND	ND
N-acetylglucosamine	-	ND	ND
cellobiose	-	ND	ND
m-inositol	ND	-	ND
sorbitol	ND	-	ND
erythrite	ND	-	ND
hippurate	ND	-	ND
D-mandelate	ND	-	ND
2-ketogluconate	ND	+	ND
propionate	ND	ND	-
fructose	+	+	+ for acid from D-fructose
D-xylose	ND	ND	- for acid from D-xylose

+,positive; -,negative; ND, not determined