

Supplementary Materials

Establishing and Optimizing a Bacterial Consortia for Effective Biodegradation of Petroleum Contaminants: Advancing Classical Microbiology via Experimental and Mathematical Approach

Table S1. Range and levels of independent variables

Variables	Low level	Medium level	High level
Y1	1	1.5	2
Y2	1	1.5	2
Y4	1	1.5	-
Y5	1	1.5	-
Y6	1	-	2
Y7	1	1.5	-
Y8	1	1.5	2

Table S2. Biochemical activities of eight isolated strains

Isolated	Gram stain	Methyl Red test	Starch hydrolysis test	Simmons Citrate test	Gelatin Hydrolysis	Catalase test
Y1	-	+	-	-	-	+
Y2	+	+	+	+	-	+
Y3	-	-	-	-	-	+
Y4	+	+	-	+	+	+
Y5	+	-	-	-	+	+
Y6	+	-	+	-	-	+
Y7	+	-	+	-	+	+
Y8	+	-	+	+	+	+

Abbreviations: (-) = Negative activity; (+) = Positive activity