**Supplementary Figure 1 Effect of pH on the growth of strainL1-W**

**Supplementary Figure 2** **Effect of temperature on the growth of strain L1-W**

**Supplementary Figure 3 Effect of DEHP concentration on the growth of strainL1-W**

**Supplementary Figure 4 Effect of NaCl concentration on the growth of strainL1-W**

**Supplementary Table 1** **Morphological, physiological, biochemical and substrate utilization characteristics of strain L1-W**

|  |  |
| --- | --- |
| **Attributes** | **Characteristics** |
| Gram’s reaction | Gram-negative |
| Bacterial shape  | Small rods |
| Colony characteristics | Irregular, moist and flat  |
| **Biochemical tests** |
| Maltose | Positive |
| Lactose | Positive |
| Glucose  | Positive |
| Mannose | Positive |
| Galactoside | Positive |
| Simon Citrate | Negative |
| Catalase | Positive |
| Oxidase | Positive |
| Motility | Motile |
| H2S production | Positive |
| **Substrate utilization tests** |
| DMP | ++ |
| DEP | ++ |
| DBP | ++ |
| DBEP | + |
| BBP | + |

**++: Vigorous growth; +: Moderate growth**

**DMP: Dimethyl phthalate, DEP: Diethyl phthalate, DBP: Dibutyl phthalate, BBP: Benzyl butyl phthalate, DBEP: Dibutoxy ethyl phthalate**