**Characterization of some naphthalene utilizing bacteria isolated from contaminated Cooum Riverine sediment of the Bay of Bengal (India)**

Anwesha Pattanaik1, Sancho Rajan1, Venkatesh Kumaresan3, Prasanth Bhatt3, Senthilarasu Gunasekaran1, Jesu Arockiaraj1, Mukesh Pasupuleti4, Paromita Chakraborty1,2\*

1SRM Research Institute, SRM University, Kattankulathur 603203, Tamil Nadu, India 2Department of Civil Engineering, SRM Research Institute, SRM University, Kattankulathur 603203, Tamil Nadu, India

3Division of Fisheries Biotechnology & Molecular Biology, Department of Biotechnology, Faculty of Science and Humanities, SRM University, Kattankulathur 603203, Tamil Nadu, India.

4Central Drug Research Institute, B.S. 10/1, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow 226031, India

\*Corresponding author: Dr. Paromita Chakraborty

E-mail: paromita.c@res.srmuniv.ac.i

**Table1: Biochemical characteristics of the isolates**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TEST | Shape | Gram’s staining | Indole | MR | VP | Citrate |
| NS3 (SRMND14B) | Rod | + | + | + | - | + |
| NS6 | Coccus | - | - | - | - | + |
| NS9 | Rod | - | + | + | - | + |
| NS10 | Rod | - | - | + | - | + |
| NS11 | Coccus | - | - | + | - | + |
| NS14(SRMND14A) | Coccus | - | - | - | - | + |
| NS15(SRMND14D) | Coccus | + | - | - | - | - |
| NS19(SRMND14E) | Coccus | - | - | - | - | + |
| NS21 | Rod | + | - | + | - | - |
| + : positive results, - negative results | | | | | | |