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Bacterial Degradation Of Crude Oil Strain isoSS-01 belong to a collection of hydrocarbon-degrading bacteria hold at IAMC-Messina, strains isoSS-2 and isoSS03 were isolated from natural seawater from crude oil enrichments in previously research. All strains used in this study were isolated from natural seawater from crude oil enrichments. Biodegradation of crude oil by individual bacterial ... A crude oil was degraded in a 21-day laboratory experiment by a culture of four aerobic bacteria isolated from an oil-contaminated soil. The progress of the experiment was measured by the changes induced in the chemical composition of the oil

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fraction boiling above 270°C. Bacterial degradation of crude oil: Comparison of field ... The degradation percentage of crude oil by the three bacterial strains and their mixture after incubation at 22°C for 7, 14, 21, and 28 days was demonstrated in Table 4. The results demonstrated that the degradation percentage increased with increasing the incubation time and reached its maximum after 28 days of incubation and the maximum ... Bacterial Biodegradation of Crude Oil Using Local Isolates At 1% crude oil concentration, the mixed bacterial consortium degraded a maximum of 77% of the crude oil. This was followed by 69% by *Pseudomonas* sp. BPS1-8, 64% by *Bacillus* sp. IOS1-7, 45% by *Pseudomonas* sp. HPS2-5, and 41% by

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Corynebacterium sp. BPS2-6. Biodegradation of Crude Oil by Individual Bacterial ... Microbial degradation of petroleum hydrocarbons is one of the major practices in natural decontamination process. The present study investigated about the isolation of bacteria from crude oil contaminated site and gravimetric analysis of degradation in which, two bacterial isolates formed maximum clearing zone on mineral salt medium. Bacterial Degradation of Crude Oil by Gravimetric Analysis Three bacterial formulations demonstrated high efficiency to degrade resins (max 24.18%) and asphaltene (max 56.17%), and they decreased the viscosity of crude oil to varying degrees at 40 °C (max 26.47%). Bacterial degradation of crude

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oil using solid ... The effects of crude oil concentrations on the growth of individual bacterial cultures and the mixed bacterial consortium, and crude oil degradation, were tested. At 2.5% BH crude oil, the mixed bacterial consortium showed 70% degradation followed by 67% at 5%, 63% at 7.5% and 52% at 10% (Table 2). Towards efficient crude oil degradation by a mixed ... Heavy crude oil spillage is even more difficult to remediate, due to its hydrophobic, toxic constituents, and its partial or incomplete degradation leads to even more toxic intermediates in the affected environment. Harmful effects of crude oil spills are often observed in marine mammals, birds, and land-based animals, including humans. Biotransformation of Heavy Crude

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Oil and Biodegradation of ... Explore the latest full-text research PDFs, articles, conference papers, preprints and more on METHANOTROPHIC BACTERIA. Find methods information, sources, references or conduct a literature review ... Methanotrophic Bacteria and Petroleum Degradation agar (for bacteria), 1.2% agar (for fungi). Crude oil (2%) sterilized using 0.45µm Millipore filter served as carbon source. The MS-oil medium for crude oil degrading bacteria and crude oil degrading fungi were then incubated at $28^{\circ}\text{C} \pm 2^{\circ}\text{C}$ respectively for 14 and 21 days. 2.2.2 Evaluation of crude oil degradation Evaluation of Crude Oil Biodegradation Potentials of Some ... This study evaluated the crude oil degradation potentials of some

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indigenous soil microorganisms. The microbial isolates were among those obtained from crude oil contaminated and uncontaminated agricultural soils of Awoye, Orioke-Iwamimo, Igodan-Lisa and Oba-Ile all in Ondo State, Nigeria. Evaluation of Crude Oil Biodegradation Potentials of Some ... Ubiquitous bacteria from the genus *Oleispira* drive oil degradation in the largest environment on Earth, the cold and deep sea. Here we report the genome sequence of *Oleispira antarctica* and show ... Genome sequence and functional genomic analysis of the oil ... Bacterial degradation of crude oil in response to nutrient treatments has been vastly studied. But there is a paucity of information on kinetic parameters of crude

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oil degradation. Here we report the nutrient stimulated kinetic parameters of crude oil degradation assessed in terms of CO₂ production Kinetics of nutrient enhanced crude oil degradation by ... petroleum hydrocarbon degrading bacteria was as follows. 100 mL of crude oil medium (SM) and 0.2 g/mL yeast extract powder were placed in a clean conical flask, and 2 mL of the collected oil polluted seawater samples was injected by sterile syringe to the crude oil medium on the clean workbench which was sterilized. Study on the biodegradation of crude oil by free and ...] a mixed bacterial consortium from *Micrococcus* sp., *Bacillus* sp., *Corynebacterium* sp., *Flavobacterium* sp., and *Pseudomonas* sp. carried out a maximum of 78% of

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degradation for crude oil after 20 days of incubation while the maximum percentage of degradation by *Bacillus* sp. and *Micrococcus* sp. was 59% and 49%, respectively. Bacterial Biodegradation of Crude Oil Using Local Isolates The degradation process of crude oil by immobilized bacteria was accelerated compared with that of the free ones. Bacterial consortium showed better performance on biodegradation of normal alkanes than that of PAHs. Study on the biodegradation of crude oil by free and ... *P. aeruginosa* WD23 degraded 27.25% of supplied petroleum crude oil under limited nutrient conditions in seawater in 15 days. Isolation and Characterization of Bacteria from Refinery ... Wang C. et al. (2018) found that an

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aboriginal bacterial consortium based on the Penglai 19-3 oil spill accident (China) had higher oil degradation efficiency compared to individual bacteria and demonstrated that this indigenous consortium had the potential for bioremediating crude oil dispersed in the marine ecosystem.

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