Bacterial Degradation Of Crude Oil By Gravimetric Analysis

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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 iso-SS03 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 ...

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 Corynebacterium sp. BPS2-6.

Biodegradation of Crude Oil by Individual Bacterial ...

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

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 fraction boiling above 270°C.

Bacterial degradation of crude oil: Comparison of field ...

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 oil using solid ...

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 biodegradation was achieved by the mixed bacterial culture.

Bacterial Biodegradation of Crude Oil Using Local Isolates

The percentage degradation of crude oil by the mixed bacterial consortium reached a maximum of 70%, while the individual cultures of Haererehalobacter sp., Oceanobacillus sp., Pseudoalteromonas sp., Nesiotobacter sp., Acinetobacter sp., Exiguobacterium sp., Ruegeria sp., Enterobacter sp. and Photobacterium sp. degraded crude oil by 66%, 61%, 51 ...

Biodegradation of crude oil using self-immobilized ...

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 Oil and Biodegradation of ...
Potential microbial drivers of biodegradation of polycyclic aromatic hydrocarbons in crude oil sludge using a composting technique Author: Obi, Linda, Atagana, Harrison, Adeleke, Rasheed, Maila, Mphekgo, Bamuza-Pemu, Emomotimi Source: Journal of chemical technology and biotechnology 2020 v.95 no.5 pp. 1569-1579 ISSN: 0268-2575 Subject:

Potential microbial drivers of biodegradation of ...
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Bacterial Cloning and Petroleum Degradation
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 col-lected 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 ...
CHAPTER ONE 1.0 INTRODUCTION Crude oils are composed of mixtures of paraffin, alicylic and aromatic hydrocarbons. Microbial communities exposed to hydrocarbons become adapted, exhibiting selective enrichment and genetic changes resulting in increased proportions of doc, pdf

Project Topic on DETERMINATION OF DEGRADINGABILITY OF ...
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
Microbial biodegradation is the use of bioremediation and biotransformation methods to harness the naturally occurring ability of microbial xenobiotic metabolism to degrade, transform or accumulate environmental pollutants, including hydrocarbons (e.g. oil), polychlorinated biphenyls (PCBs), polyaromatic hydrocarbons (PAHs), heterocyclic compounds (such as pyridine or quinoline), pharmaceutical substances, radionuclides and metals.

Microbial biodegradation - Wikipedia
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 ...
Biodegradation by natural populations of microorganisms represents one of the primary mechanisms by which petroleum and other hydrocarbon pollutants can be removed from the environment [6. W. Ulrici, “Contaminant soil areas, different countries and contaminant monitoring of contaminants,” in Environmental Process II.

Microbial Degradation of Petroleum Hydrocarbon ...
Microbial infestation degrades the oil and leads to the formation of acids and sludge, metal staining, deposits and serious corrosion. When the microbes reproduce they tend to generate slime and eggs, which when rot gives out the foul smell in the form of hydrogen sulphide.

Microbial degradation of Oil | Mariner's Space
P. aeruginosa WD23 degraded 27.25% of supplied petroleum crude oil under limited nutrient conditions in seawater in 15 days.