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Polycyclic aromatic hydrocarbons (PAH) are regarded as environmental pollutants. A promising approach to reduce PAH pollution is based on the implementation of the natural potential of some microorganisms to utilize hydrocarbons. In this study *Proteiniphilum acetatigenes* was used for bioaugmentation of sewage sludge to

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improve the PAH
removal.

Bioaugmentation
experiments were
performed in parallel
semi-continuously fed
reactors started up
with digested primary
and secondary sludge.

Ex-situ bioremediation of polycyclic aromatic hydrocarbons ...

Wang X, Yu X, Bartha R
(1990) Effect of
bioremediation on

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polycyclic aromatic
hydrocarbon residues
in soil. Environ Sci
Technol
24(7):1086-1089

CrossRef Google
Scholar Watson SW,
Novitsky TJ, Quinby HL,
Valois FW (1977)
Determination of
bacterial number and
biomass in the marine
environment.

**Ex situ
bioremediation
method for the**

Where To Download Ex Situ Bioremediation Of **treatment of ...**

Ex-situ bioremediation is a biological process in which excavated soil is placed in a lined above-ground treatment area and aerated following processing to enhance the degradation of organic contaminants by the indigenous microbial population. Under aerobic conditions, specific micro-organisms can utilise organic

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contaminants such as petroleum hydrocarbon mixtures, polycyclic aromatic hydrocarbons (PAH), phenols, cresols and some pesticides as a source of carbon and energy and degrade them ...

Ex-Situ Bioremediation - Vertase FLI Ltd

Abstract Soil from a former creosoting plant containing phenols and polycyclic aromatic

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hydrocarbons, was remediated using an ex-situ landtreatment process. Total 16 USEPA priority PAH and total phenol were reduced from 290 mgrkg and 40 mgrkg to 200 mgrkg and 2 mgrkg, respectively.

Bioremediation of phenols and polycyclic aromatic

...

Soil from a former creosoting plant

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containing phenols and polycyclic aromatic hydrocarbons, was remediated using an ex-situ landtreatment process. Total 16 USEPA priority PAH and total phenol were reduced from 290 mg/kg and 40 mg/kg to <200 mg/kg and 2 mg/kg, respectively.

Bioremediation of phenols and polycyclic aromatic

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Bioremediation of polycyclic aromatic hydrocarbons in sediments.8-10,40Even in aerobic environments such as contaminated soils, sediments and groundwater can develop anaerobic zones.41This is due to the organic contaminant stimulating their situmicrobial community, resulting in the depletion of molecular oxygen

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during aerobic
respiration.

**Bioremediation of
polycyclic aromatic
hydrocarbons ...**

With advances in
biotechnology,
bioremediation has
become one of the
most rapidly
developing fields of
environmental
restoration, utilizing
microorganisms to
reduce the
concentration and

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toxicity of various chemical pollutants, such as petroleum hydrocarbons, polycyclic aromatic hydrocarbons, polychlorinated biphenyls, phthalate esters, nitroaromatic compounds, industrial solvents, pesticides, and metals.

Bioremediation- Types, Factors, Advantages, & Limitations ...

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In Situ and Ex Situ

Bioremediation

Bioremediation

techniques are

destruction techniques

to stimulate the growth

of micro-organisms ,

using the contaminants

as a food and energy

source . These

techniques have been

successfully used to

remediate soils/sludges

& groundwater

contaminated by

petroleum

hydrocarbons,

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solvents, pesticides,
wood...

**In Situ & Ex Situ
Bioremediation
Treatments -
Bioremediation**

It can remove up to 96% of polycyclic aromatic hydrocarbons (PAH). It is commonly found in industrial countries where bioreactors are found. it is also expensive to build it. Cost. For slurry phase bioremediation,

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it cost about
US\$130-\$200 /m³. If
the soil contains
volatile compounds, it
costs up to US\$210
/m³.

Ex Situ Bioremediation of Soil « BIOREMEDIATION OF

...

What is Ex Situ
Bioremediation? Ex situ
bioremediation is a
technique which treats
the contaminants away

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from the location where they were found. Contaminants are excavated or pumped out from the original site and treated inside the controlled environments. A wide range of hydrocarbons is purified by ex situ bioremediation.

Contaminated soils are excavated and placed on the surface of the ground and treated using indigenous

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microorganisms.

Difference Between In Situ and Ex Situ Bioremediation ...

There are several types of bioremediation: in situ bioremediation is the in-place treatment of a contaminated site; ex situ bioremediation is the treatment of contaminated soil or water that is removed from a contaminated site; and intrinsic bioremediation is the

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indigenous level of
contaminant
biodegradation that
occurs without any
stimulation or
treatment. All of these
types of
bioremediation are
receiving increasing
attention as viable
remediation
alternatives for several
reasons.

In Situ Bioremediation - an overview |

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Soil from a former creosoting plant containing phenols and polycyclic aromatic hydrocarbons, was remediated using an ex-situ landtreatment process. Total 16 USEPA priority PAH and total phenol were reduced from 290 mg/kg and 40 mg/kg to < 200 mg/kg and 2 mg/kg, respectively. The bioremediation process involved soil

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Bioremediation of phenols and polycyclic aromatic Hydrocarbons

Consequently, ex situ bioremediation techniques adapt the inoculation of PAH specific exogenous microorganisms such as bacteria and fungi. The aerobic biodegradation process also known as aerobic respiration is the breakdown of

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contaminants by
microorganisms in the
presence of oxygen.

Remediation of soils contaminated with polycyclic aromatic

...

Ex situ bioremediation
method for the
treatment of
groundwater ... for the
treatment of polycyclic
aromatic hydrocarbons
(PAHs)-contaminated
groundwater and to
assess its efficiency.

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The aquifer in Kirchseeon region, Germany, is contaminated with PAHs due to product loss of tar oil

Ex situ bioremediation method for the treatment of ...

Bioremediation is divided into two types of remediation: in-situ and ex-situ. In-situ remediation techniques include land tillage,

Where To Download Ex Situ Bioremediation Of microorganism addition, bio-culture, and bio-ventilation. Ex- situ... Hydrocarbons

Bioremediation of oil contaminated soil using agricultural ...

Ex-Situtreatment involves excavation of contaminated soils and removal for bioremediation at another location. This method of treatment has the advantage of more control over

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parameters such as
moisture content,
temperature, and
nutrient content.

BIOREMEDIATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL ...

Bioremediation
technologies use
microorganisms to
treat contaminants by
degrading organic
compounds to less
toxic materials, such as

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CO₂, methane, water, and inorganic salts. These technologies include intrinsic or enhanced bioremediation, which is the focus of this report, and can be performed in situ or ex situ under aerobic or anaerobic ...

**United States
Environmental
Protection Agency
clu-in.org ...**

The ex situ techniques

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require the physical removal of the contaminated material and its transportation to another area for further treatment by bioreactors, land farming, or composting, whereas in situ technologies involve treatment of contaminated material in place, such as by bioventing, or biostimulation. Table 1.

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Hydrocarbons