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Title: Biosurfactant from *Paenibacillus dendritiformis* and its application in assisting polycyclic aromatic hydrocarbon (PAH) and motor oil sludge removal from contaminated soil and sand media

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- 1 ➤ Noble *Paenibacillus dendritiformis* strain produced lipopeptide biosurfactant
- 2 ➤ The lipopeptide enhanced removal of PAHs, heavy motor oil from spiked soil and sand
- 3 ➤ The lipopeptide formed stable emulsions with a range of hydrocarbons
- 4 ➤ The lipopeptide showed stability over a wide range of temperature, pH and salinity
- 5

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