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Biosurfactants: Characterization by *Pseudomonas aeruginosa*, Analysis Techniques and application taking rhamnolipid as an example

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Abstract : Biosurfactants are also referred to as microbial reactants for the surface dynamic bio molecules formed by a variety of microorganisms. In a wide range of fields, for example , increased oil recovery, natural bioremediation due to its characteristics such as more notable biodegradability and less toxicity, biosurfactants have achieved centrality. In this review, we have presented details about different kinds of biosurfactants along with their merits and demerits Rhamnolipid is the kind of the microbial biosurfactant that boost bio remediation process by discharging the endured oil from the dirt networks and upgrade bio availability of hydrocarbons for microbial debasement. Also Rhamnolipid biosurfactants can be potential lubricants in pharmaceutical field. Moreover it possess great application in the deinking of old used paper In the field of hydrocarbon defiled locations, it has increased wide significance. Different Rhamnolipid analysis techniques of characterization of biosurfactants are incorporated in this study.

Keywords : Biodegradability, biosurfactants, Rhamnolipid, qualitative & quantitative analysis-*Pseudomonas aeruginosa*; Analysis Purification[1].

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