

Isolation and Characterization of pigments from microorganisms isolated from marine soil

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ABSTRACT

Bacterial pigments have many applications in current day to day life. The pigments produced by chromobacteria can be used for applications in dairy, pharmaceutical, food etc. In the current study, 3 pigments were isolated, FLUORESCENT ORANGE: *paracoccus spp*, FLUORESCENT YELLOW: *pseudomonas spp*, PINK: *serratia spp* pigmented bacterial isolates obtained from the soil, were used for pigment extraction and study. To isolate and characterize the pigment producing bacteria from marine soil. This work was to study the pigment producing bacteria and to identify the colour producing pigments. Soil samples from Pondicherry, Cuddalore, and Chennai & Andhra sea coast were collected and used for isolation of microbes producing pigments. Purification of extracted pigments by column chromatography, identification and characterization of purified pigment by UV visible spectrophotometry and GC/MS analysis etc. The pigment isolated from bacteria was used for antimicrobial activity, antioxidant, anticancer activity and transformation studies. The bacterial extract of carotenoid pigment extracted and was used as natural colorants for food products and for dyeing of cloth.