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Isolation, Screening & Identification of L-Glutaminase Producer from the River Bank Soils of Andhra Pradesh

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Abstract : With an aim to isolate a potential enzyme producer from the marine sources, around fourteen marine colonies were isolated and were evaluated for the l-glutaminase production. The screening of l- glutaminase producing isolates were carried out using rapid agar plate technique by dye based method. Out of fourteen isolates the strain GA-07 showed highest potential for the l-glutaminase production. The enzyme activity was further confirmed by colorimetric method. The strain GA-07 was identified as *Idiomarina* sp. based on morphological and chemical characteristics and finally confirmed as *Idiomarina sediminum*; H1695; (Gene Bank Accession Number JF346667) by sequencing method.

Keywords : *Idiomarina sediminum*; H1695;l-glutaminase,mineral salt agar medium, DNA sequencing technique.

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