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Knowhow offering

Title	High-yield process for natural astaxanthin production
Knowhow is available for	A method to grow the highest astaxanthin-yielding native strain reported till date
Summary	A new strain of microalgae called D. globosus-HI was isolated from the Himalayan region in Northern India. Both morphological and molecular analyses were carried out to identify the strain. TLC and HPLC analysis was carried out to reveal that the isolated strain D. globosus-HI accumulates astaxanthin. The study assessed the growth and production of astaxanthin by the new strain in seven different media. The results showed that the highest level of astaxanthin (391.00 mg/L) was observed in D. globosus-HI, which is higher than any other known potential source of algal astaxanthin.
Advantages	Native organism: Dymorphococcus globosus-HI Highest yield (391 mg/L) of astaxanthin by the algal strain to be reported. Highest astaxanthin content per cell to be reported to date. Low cost aqua media for cultivation Non-GMO

Knowhow is listed under following categories

Knowhow from	
Scientific/ engineering subject areas	Life sciences/ biosciences & engineering
Investor interest categories	Biotechnology/ Biomedical/ Health Technologies
Industries	Pharmaceuticals, Bulk Drugs, Formulations
Customer categories and nature of business	Businesses and other industries (B2B)
Technology readiness levels	TRL B: Proof-of-concept demonstrated in lab scale

Related documents:

Database reference

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