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Zhila, Natalia; Sapozhnikova, Kristina; Kiselev, Evgeniy; Kolmakova, Anzhelika; Volova, Tatiana
Polymer Journal

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เรื่องที่นำผลงานไปอ้างอิง

New strain *Cupriavidus necator* B-15081-a producer of single-cell protein and degradable polyhydroxyalkanoates on waste fish oil

By Zhva, N (Zhva, Natalya); Sapozhnikova, A (Sapozhnikova, Kristina); Kargin, S (Kargin, Evgeniy); Kozlovskaya, K (Kozlovskaya, Anastasiya); Kozlov, T (Kozlov, Tatiana)

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Abstract This article presents the results of the synthesis of biological macromolecules, namely, single-cell protein (SCP) and degradable polyhydroxyalkanoates (PHA), by a new strain of *Cupriavidus necator* B-15081 with high lipase activity on waste fish oil (WFO). Bacteria were cultivated in flasks on medium containing 20 g/L WFO obtained from *Squalius laietanus* and *Scomber scombrus* waste under different concentrations of the nitrogen source (urea) to modify the C/N ratio in the medium and the direction of constructive cell metabolism. On a medium with a urea concentration of 1.5 g/L, the bacterial biomass concentration reached 7.2 ± 0.3 g/L, the intracellular protein content was 30.7%, and the amino acid composition was complete with a full set of amino acids, including essential ones. In a slowly growing culture under nitrogen deficiency, the total biomass concentration

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