

عنوان مقاله:

Production of Single Cell Protein from Stickwater of Fish Meal Production Factory by *Saccharomyces cerevisiae*

محل انتشار:

اولین کنفرانس ملی یافته های نوین زیست شناسی (سال: 1395)

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خلاصه مقاله:

One of the most important problems in fish meal factories is stick water. This waste has rather high protein and might be used as substrate for the growth of bacteria such as lactic acid bacteria and yeast. Different amount of substitute of stick water was used instead of the standard medium (20, 30, 40, 50 and 100%). In this study the stick water of fish meal produced in Danetalaie Chabahr factory were gathered and autoclaved. In this study *Saccharomyces cerevisiae* were used for SCP production from stick water. Adaptation of *Saccharomyces cerevisiae* to pure stick water was performed by increasing the concentration of stick water in stick water. The effect of glucose, as additional substrate on SCP production, was also evaluated. After separation of biomass, the final product was analyzed for total protein and total fat. The range of proteins obtained from this method was between 50% - 60%. Amount of protein in 100% of stick water was 52%. It shows that SCP produced by this method can be used as an important supplement

کلمات کلیدی:

Single Cell Protein, Stick Water, *Saccharomyces cerevisiae*

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