

An overview of Cheese whey recycling

Abstract

Today, with increasing in production and diversity expansion of dairy products in factories and production of whey products, this food product has become very important. Whey is a water-soluble part of milk that is obtained by adding acid, heating, and coagulating the cheese. This yellow liquid contains a lot of lactose and mineral compounds such as calcium and phosphorus, which is important to achieve in order to use as a food source and prevent environmental pollution. Since the wastewaters of the dairy industry have the highest levels of contamination, if the untreated wastewaters of this industry are discharged, serious environmental problems will be inevitable. On the other hand, a reduction in existing reserves and environmental problems followed by increasing use of fossil fuels has prompted researchers to produce new sources of renewable energy, and it can be said that new biological technologies, such as the use of whey as a way to produce biofuels, reduces the environmental problems of discharging this kind of wastewaters into nature. Today, using biological technology, these compounds can be used to produce biofuels such as hydrogen, methane, and ethanol.

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Biography

Hamed Kioumars received his BSc and MSc degrees in Agriculture and Ph.D. from the University Science Malaysia in 2004, 2007, and 2011 respectively. He then completed a second master's degree in Education (Applied Linguistics). He is an Award-Winning Author, Researcher, and Education Consultant.