

UGM Students Formulate Anti-Aging Cream from Soy Milk Waste

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Leftovers from making soy milk are often left unused and thrown away. In fact, this waste contains high antioxidants needed to make a beauty cream to delay aging process.

Three students of Universitas Gadjah Mada have proved it through a series of experiments. They successfully formulated an anti-aging cream from soy milk waste, called as Gylcream.

“Apart from vitamin E, soy milk waste also contains vitamin B1 and isoflavones by 22%,” said Iffah Sofana, Gylcream developer student, Wednesday (7/11) in UGM.

The student of Animal Sciences noted the three components serve as antioxidant compounds. Seeing the great potential of soy milk waste, Iffah invited a student from the same major, Muna Fadilah, and Nurfirda Herliana from the Faculty of Pharmacy to further analyze the waste.

Mentored by Dr. drh. Widagdo Sri Nugroho, MP., they conducted experiments on the waste. The three students made a cream from soy milk waste extract as the anti-aging agent through the

Student Creativity Program for Exact Research.

“Previously we formulated the best cream composition to obtain the anti-aging effect.”

Firda added that the best cream formulation contains soy milk waste extract by 10%. Organoleptic and pH testing showed that the composition suitable for the cream standard.

Once the right composition was obtained, the cream was tested on the skin of brown rats. The skin had been exposed to UV-B for 17 minutes with radiation of 10 mW/cm² for 14 days.

“The result showed that 51% of Gylcream application was more effective in delaying signs of aging compared to chemical anti-aging creams on the market,” said Muna.

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