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A UGR thesis patents an experimental device to produce more effective detergents for solid surfaces

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Hotel and food trade will be the most to benefit when the findings of these thesis of the University of Granada (Universidad de Granada) come on to the market: the total absence of pathogen germs and toxins is essential in meals.

Deisi Altmajer´s work on "Formulaciones detergentes biodegradables: ensayos de lavado" (Biodegradable detergent formulations: wash tests) proposes an experimental device which determines the effectiveness of biodegradable detergents for solid surfaces and in the no deterioration of dishes.

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For that reason, the cleaning company of Granada BMI has been involved all these years los in the tests carried out in the Department of Chemical Engineering of the UGR [<http://www.ugr.es>], under the supervision of teachers Encarnación Jurado Alameda, Vicente Bravo Rodríguez and Josefa Núñez Olea.

The results of the thesis point out that the device, called BSF (Wash-Substratum-Flow), develops a system to compare the effectiveness of different detergents for greasy dirt, which is being patented at the moment. On that base, we can obtain cleaning products with biodegradable tensoactives from natural greasy sources, oils and carbohydrates.

Ecology and effectiveness

Therefore, "they are biodegradable detergents, with low environment impact, and operate in moderate process conditions: low temperatures, low concentrations, with low PHs", the author points out. Besides this ecological component, they will maintain their effectiveness, speed and wash conditions. They will be coloured for a safer use, avoiding cases og involuntary intake on the part of the consumer.

"They will be ecological and, at the same time, they will clean better. To develop it, parametres like client subjectivity will be taken into account", Rafael Bailón Moreno, of BMI, points out. This company and the UGR intend to make progress in this research line for the development of industrial dish soaps, with surveys to users, normally innkeepers, by delivery of a sample of the product.

Antonio Marín Ruiz | Quelle: alphagalileo

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