

Summary of the application: Vitamin D₃ containing UV-treated mealworm oil

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Following Regulation (EU) 2015/2283 on novel foods, Nutriearth submitted a novel food application in order to be able to commercialize vitamin D₃ containing UV-treated mealworm oil within the European Union, and thus open the market to new food sources.

Nutriearth develops and produces vitamin D₃ containing UV-treated mealworm oil. Vitamin D₃ containing UV-treated mealworm oil (NF) is produced from larvae of *Tenebrio molitor*. The proposed conditions of use of the NF in the EU market as ingredient in a range of food products are reported in the dossier.

Nutriearth has developed an NF production system that includes UV exposure, resulting in a standardized product with stable oxidative and vitamin D₃ levels over time. A quality system has also been put in place and presented in this application to guarantee the quality and safety of NF. All production stages, from larvae to finished product (NF), are described in this application. Recurrent analyses are carried out on microbiology, pesticides, mycotoxins, heavy metals, Dioxin, PCB and oxidation parameters. The results of these analyses meet the requirements of EC Regulation 2073/2005 amended for microbiology, EC Regulation 1881/2006 for mycotoxins and heavy metals and are under limit of quantification for pesticides. Under the conditions of production described in this application and the maximum quantities consumed per day of our NF per person (around 2 g per day of our NF), our NF constitutes a healthy food, safe for human consumption.