

Bioconversion by Re-esterification Enzyme from Crude Glycerol as a Source for Targeted Structured Triglycerides - BIOTEDs

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Crude glycerol is a substance that is obtained as another product of the process of esterification of fats and oils together with biodiesel (NOx-), the main product of the process and free of gaseous substances nitrogenated. It is intended to assess in the laboratory, the feasibility of bioconverting molecules from crude glycerol - CGly directed structured triglyceride; BIOTEDs defined, this means the method of re-esterification of the molecule (CGly) with saturated fatty acids and unsaturated fats from vegetable and animal. The process begins with the enzymatic esterification of animal fat for biodiesel (NOx-), is continuing with the analysis of CGly both its physical and chemical properties, such as its molecular identification, then proceeds to define the methodology (order and target-target) to re-stereospecific enzyme re-esterified with the carbons C1, C2 and C3, then re-esterified and trials are conducted physical, chemical and biological. It is intended to reach conclusions about the re-esterification of crude glycerol molecule to obtain a new substance with greater added value, the BIOTEDs and engineering from the reaction used.

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