

Gas Chromatography Coupled with Mass Spectrometry Determination of Fatty Acids in Patients Supplemented with Fatty Acids – Preliminary Studies

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Fatty acids are important ingredients of a healthy and balanced diet. They are components of blood lipids and lipids in biological membranes **Błąd! Nie można odnaleźć źródła odwołania..** Moreover, lipids that are build from fatty are main sources of energy and are essential for metabolic and structural activities **Błąd! Nie można odnaleźć źródła odwołania..** Given the nutrition and health values, the most important fatty acids are the polyunsaturated fatty acids, with more than one double bond. The main sources of these compound are various vegetable and fish oils **Błąd! Nie można odnaleźć źródła odwołania..**

Fatty acid imbalance in the system can lead to many grave disorders, among others: coronary heart disease and diabetes **Błąd! Nie można odnaleźć źródła odwołania..**, as well as neuropsychiatric disease, e.g. schizophrenia **Błąd! Nie można odnaleźć źródła odwołania.** and depression **Błąd! Nie można odnaleźć źródła odwołania..** Supplementing patients with fatty acids should result in rebalancing the system and decreasing the severity of the disease.

The aim of the research is to make a fatty acid profile of patients supplemented with fatty acids. The preliminary studies were conducted to optimise and validate a reliable method using gas chromatography with mass spectrometric detection.

Bibliography:

Błąd! Nie można odnaleźć źródła odwołania.