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ANIMAL MILK BUTTER-A REVIEW ON ITS COMPOSITION AND THE USED ANALYTICAL TECHNIQUES FOR THE FATTY ACIDS AND VOLATILE COMPOUNDS PROFILE DETERMINATION

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Animal milk butter, is a dairy product with an important role in the diet of the people in Mediterranean basin and worldwide. It is used as a spread in breakfasts and as cooking stuff and raw material in many sectors of the Food Industry and catering. Major part of its composition are lipids including bioactive ω -3 and ω -6 fatty acids and minor but important are the contained volatile aroma constituents. The content of these compounds is reported by the literature to be dependent on many parameters including season, the nature of animal nutrition, the altitude where the milk producing animals are kept, the animal race e.t.c. For the fatty acids and aroma profile of the butter several analytical techniques have been developed in order to determined, on both qualitative and quantitative basis, and extract useful conclusions on how this can be improved. The present work is a comprehensive review on the product composition and the available modern analytical techniques established to determine the fatty acids and aroma profiles of animal milk butter and the presented information was collected to serve an ongoing research for detailed mapping of quantitative variation of bioactive and aroma compounds in milk butters around Greece.