

Milk lipid particles - composition and health properties of membrane fractions, including laktosomer

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Aim and Description:

Milk is a suspension of lipid, protein, carbohydrate, and minerals. The majority of the fat is found in globules enveloped by a phospholipid membrane containing proteins. In addition, the existence of skim milk membranes and exosomes has also been described. Recent studies imply the presence a new type of small lipid particles, called lactosomes. In the current project we aim at clarifying whether lactosomes exist in cow's milk, and to conduct comparative analyses with other milk derived membrane fractions. In the end the nutritional and health associated aspects of the different membrane structures will be evaluated, based on the performed studies on physicochemical properties, lipid and protein profiling, and biological assays.