<u>Comparative analysis of physical properties and fatty acid composition of set-yogurt</u> <u>manufactured from different milk types</u>

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Author Order	1 of 8
Accreditation	
Abstract	The increasing consumption of fermented milk products such as yogurt can be attributed to their health benefits as it contains milk-derived essential nutrients and probiotic lactic acid bacteria added as a starter culture. Yogurt is made from different varieties of fresh and reconstituted milk. The unique characteristics of goat milk provide an opportunity to produce yogurt that meets consumers' preferences. This study determined, evaluated and compared the physical properties, fatty acid composition and the nutrient/health index based on the fatty acids profiles of goat's and cowŢŀÅT ^M s milk set yogurt. The yogurt was made from different milk varieties, which were goat's milk, cow's milk, a combination of goat's and cow's milk, commercial pasteurized full-fat cow's milk, and low-fat cow's milk. Physical properties evaluated were spontaneous or free whey, syneresis, water-holding capacity, viscosity, and texture. The composition of fatty acids was determined, grouped, and used to assess the nutrient/health index. The physical differences between yogurt prepared from goat's milk and cow's milk were established. This study revealed 21 different fatty acids in set yogurt made from goatâŀÅ TM s and cow's milk, and the goatâŀÅ TM s milk yogurt contained 6 fatty acids and 37.7% unsaturated fatty acids. This study demonstrated the effect of milk varieties on the variation of yogurt's physical properties and fatty acid composition. This information is valuable to establish the ways to enhance the product's quality.
Publisher Name	Hasanuddin University Food Science and Technology Study Program
Publish Date	2023-12-31
Publish Year	2023
Doi	DOI: 10.20956/canrea.v6i2.1148
Citation	
Source	jurnal1
Source Issue	VOLUME 6 ISSUE 2, DECEMBER 2023
Source Page	167-181
Url	https://agritech.unhas.ac.id/ojs/index.php/canrea/article/view/1148/349
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