journal homepage: http://chimie-biologie.ubm.ro/carpathian journal/index.html

PRODUCTION OF PAPAYA FLAVORED ICE-CREAM WITH PUREE, AND SPRAY-DRIED PAPAYA POWDER

Chi Hong¹, Enis Mudiliar Rajan¹ and Liew Phing Pui¹⊠

¹Department of Food Science with Nutrition, Faculty of Applied Sciences, UCSI University, No. 1, Jalan Menara Gading, UCSI Heights, 56000 Cheras, Kuala Lumpur, Malaysia.

[™]puilp@ucsiuniversity.edu.my

https://doi.org/10.34302/crpjfst/2021.13.4.8

Article history: ABSTRACT
Received: Ice-cream is

2 September 2020

Accepted:

30 September 2021

Keywords: Ice-cream; Papaya; Powder; Puree;

Physico-chemicals;

Sensory.

Ice-cream is one of the most consumed dairy products. However, the commercial ice-cream product is low in natural antioxidants, dietary fibers, and minerals. Therefore, highly nutritious papaya can be incorporated into ice-cream. This study aims to produce ice-cream using papaya puree (20-80% w/v) and spray-dried papaya powder (20-80% w/v). The sensory properties (QDA and nine points hedonic scale), and physicochemical and proximate analysis of the ice-cream were performed. From sensory evaluation, ice-cream formulated with 20% (v/v) papaya puree gained the highest rate on overall acceptability and was most preferred among the formulated papaya ice-creams. Meanwhile, ice-cream formulated with 20% (v/v) papaya puree contains 23.53 \pm 2.33% moisture, 2.30 \pm 0.10% protein, 0.88 \pm 0.06% ash, and 3.04 \pm 0.81% fat. Therefore, ice-cream formulated with 20% (v/v) papaya puree might be suitable and more accepted by the consumers and may have a potential marketable value.