

Analysis of chemical, physicochemical and sensorial properties of healthy cocoa cream formulated with sweet potato (*Ipomoea batata*) and house cricket (*Acheta domesticus*) flour

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OBJECTIVE

The aim of this work was to determine the chemical composition, the physico-chemical and sensorial properties of a healthy cocoa cream elaborated with sweet potato and house cricket flour.

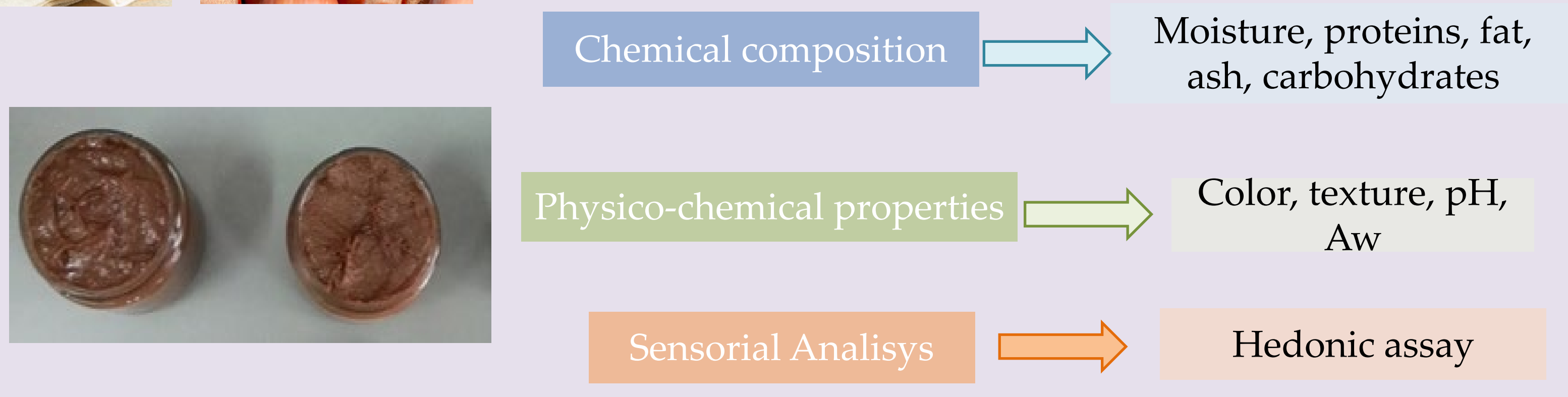


	CCC	CCHC
Sweet potato	65	55
Hazelnut	15	15
Avage syrup	10	10
Cocoa powder	5	5
Cricket flour	0	10

Values expressed as g/100 g; CCC: Cocoa Cream Control; CCHC: Cocoa cream with cricket

INTRODUCTION

Sweets are the most commonly consumed snacks around the world. In this sense the food industry is focused on designing foods with reduced sugar and high protein content. In this context, cricket powder may be used as eco-friendly and sustainable protein-rich additive



RESULTS AND DISCUSSION

Chemical composition of cocoa cream and cocoa cream added with house cricket flour

	Moisture	Proteins	Fat	Ash	Carbohydrates
CCC	57.23±0.84 ^b	4.81±0.23 ^b	9.05±0.52 ^b	2.17±0.09 ^b	26.74±0.11 ^a
CCHC	52.23±0.63 ^a	11.64±0.36 ^a	12.94±0.39 ^a	2.37±0.06 ^a	20.82±0.16 ^b

Values expressed as g/100 g; CCC: Cocoa Cream Control; CCHC: Cocoa cream with cricket

Physico- Chemical composition of cocoa cream and cocoa cream added with house cricket flour

	Aw	pH	L*	a*	b*
CCC	0.486±0.02 ^a	5.69±0.03 ^a	29.54±0.39 ^b	10.08±0.31 ^a	14.77±0.19 ^a
CCHC	0.484±0.003 ^a	5.64±0.02 ^a	32.56±0.93 ^a	10.22±0.26 ^a	14.41±0.32 ^a

CCC: Cocoa Cream Control; CCHC: Cocoa cream with cricket

