

Supplementary Data:

Table 1. Nutrient Composition and Calorie of experimental diet

	Research Diet 45%HFD	Charles River Normal Chew
	D12451	(MFG)
Protein (%)	23.7	22.9
Carbohydrate (%)	40.7	54.2
Fiber (%)	5.8	3.4
Fat (%)	23.6	5.4
Mineral (%)	5.8	6.2
Vitamin (%)	0.1	2.4
Calorie (Kcal/100g)	470	357

Table 2. 8 Nutritional Composition of Ripe Gac pulp and Gac aril

Contents	Unit	Pulp	Aril
Calories	Kcal/100g	17.4	125.86
Protein	g/ 100g	0.6	1.65
Fat	g/ 100g	Not detected	7.21
Saturated Fatty Acid	g/ 100g	Not detected	2.47
Tans Fatty Acid	g/ 100g	Not detected	Not detected
Carbohydrates	g/ 100g	5.5	14.51
Sugar	g/ 100g	Not detected	10.75
Fiber	g/ 100g	3.5	1.82
Water	g/100g	92.5	76.08
Ash	g/ 100g	1.4	0.55
Sodium	mg/ 100g	2.5	1.97

Table 3. Carotenoid and vitamin content of Ripe Gac pulp and Gac aril

Item	Unit	Pulp	Aril
Lycopene	mg/kg	29.6	1,322.1
β -Carotene	mg/kg	Not detected	48.2
Lutein	mg/kg	Not detected	Not detected
Zeaxanthin	mg/kg	Not detected	Not detected
Vitamin B1	mg/100g	Not detected	0.31
Vitamin B2	mg/100g	0.09	0.42
Vitamin B3 (Niacin)	mg/kg	0.34	2.88
Vitamin B5	mg/kg	0.65	1.22
Vitamin B6	mg/kg	1.06	2.5
Vitamin C	mg/kg	4.36	2.19
Vitamin E	mg/kg	16.05	Not detected

Table 4. Fatty acid content of Ripe Gac pulp and Gac aril.

Item	Unit	Pulp	Aril
Fat	g/100g	Not detected	7.21
Total Saturated Fatty Acid	g/100g	Not detected	2.47
Total Unsaturated Fatty Acid	g/100g	Not detected	4.66
Total Trans Fatty Acid	g/100g	Not detected	Not detected
ω -3 Fatty Acids	g/100g	Not detected	3.22
ω -6 Fatty Acids	g/100g	Not detected	3.22
ω -9 Fatty Acids	g/100g	Not detected	1.37