

Supplementary Table S1A. The equations for the standard curves, regression coefficient (r^2).

Volatile	Equation	Regression coefficient (R^2)
Pentadecane	$Y=0.1123x+0.1701$	0,99
Pentanal	$y=0.1492x + 0,0122$	0,99
1-octene	$Y=0.118x + 0.008$	0,99
Methylheptadecanoate	$Y=0.111x+0.1862$	0.99

Supplementary Table S1B. The Chemical Abstracts Service (CAS) number for the aroma volatiles detected in cantaloupe and honeydew melons.

Volatile compounds	CAS No
2 Heptenal, Z	57266-86-1
Benzaldehyde	100-52-7
Nonane	111-84-2
4-Methylundec-1-ene	13151-29-6
3 hydroxy-butan-2-one	513-86-0
Hexadecane	544-76-3
Decane	124-18-5
Pentadecane	629-62-9
2 methyldecane	6975-98-0
2 methylnonane	871-83-0
4,5-Dimethyl-1-hexene	16106-59-5
Ethyl butanoate	105-54-4

Ethyl hexanoate	123-66-0
Hexyl acetate	142-92-7
Propyl acetate	109-60-4
2-Methyl propyl acetate	110-19-0
Methyl acetate	79-20-9
Benzyl butanoate	103-37-7
2 ethyl hexyl acetate	103-09-3
2 Nonenal	18829-56-6

Supplementary Table S2. Definition of attributes and reference scales used in the sensory analysis of melons.

S/N	Attribute	Description	References points scale values (0-15)
1	Appearance		
	Colour	Evenness of colour, uniformity and intensity on the sample surface and degree of the dominant colour	Very irregular: 0; Pale: 0 Moderate: 5-6 Very even: 15; Saturation: 15 Honeydue : Apple peel, Cantaloupe : carrot
2	Texture		
	Juiciness	The amount of juice released from the sample when bitten by the incisors	Banana, yellow ripe: 0-1 Watermelon: 5-6 Over ripe mango pulp: 15
	Firmness	The resistant force required to compress the sample on the teeth, prior to smashing into pieces in the mouth.	Banana, yellow ripe: 0-1 Granny Smith apple: 5-6 Cucumber with peel : 15
3	Taste		
	Sweetness	The taste of sweetness (from none to very strong)	Banana unripe: 0 Banana yellow ripe: 5-6 Banana over-ripe :15
	Green taste	The aroma associated with green cut vegetables (such as cucumber peel, broccoli)	Ripe Carrot: 0 Mixed green leafy vegetables :15
	Fruity	The aroma associated with fruity (from none to very strong)	Absent: 0 Dole mixed juice (orange and mango, carrot): 15
4	Acceptability		
	Overall eating quality	The degree of acceptability (from bad to good) how well the sample is liked in terms of overall eating quality	Universal scale of experiences with muskmelon eaten (Honeydue, watermelon, cantaloupe)