



Figure S1. Standard curves for all identified flavonoids in *Mentha* species, detection: 370 nm.

Table S1. Possible compounds identified by the electronic nose in essential oil of different varieties of mints sprayed with amino acids

Serial number	Kovats retention	Possible matches compounds	Chemical group of compounds	Sensory descriptors	Species/varieties																																							
					<i>M. spicata</i> 'Moroccan'								<i>M. spicata</i> 'Crispa'								<i>M. piperita</i> 'Granada'								<i>M. piperita</i> 'Swiss'								<i>M. piperita</i> 'Multimentha'							
					Treatment																																							
					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
1	477	Propanone	Ketones	Pungent	-	-	-	+	-	+	-	-	-	-	+	-	-	-	-	-	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	+	-	+	-	-	
2	558	Tert-Butylmethylether	Ethers	Pungent	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	600	Ethyl acetate	Esters	Anise	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
4	639	Isopropyl acetate	Esters	Fruity	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+		
5	657	n-butanol	Alcohols	Fruity	+	+	+	+	+	-	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
6	686	Acetoin	Ketones	Butter	-	-	-	-	-	-	-	-	+	+	-	+	+	+	-	+	-	-	-	-	+	-	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	
7	702	Methylbutanoate	Esters	Fruity	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	711	Propyl acetate	Esters	Fruity	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	733	Isoamyl alcohol	Alcohols	Fruity	-	-	-	+	-	+	-	-	-	+	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	
			Sulfides	Garlic	-	-	-	-	+	-	+	-	+	+	+	+	+	+	-	-	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+
10	797	Butyl acetate	Esters	Fruity	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	802	Ethyl butyrate	Esters	Fruity	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	820	Butanoic acid	Esters	Butter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	830	Furfural	Aldehyde	Spice	-	-	-	-	+	-	-	-	-	-	+	-	-	-	+	-	-	-	+	-	-	-	-	-	+	+	-	+	-	+	-	-	-	-	-	-	-	-	-	
14	840	Leaf alcohol	Alcohols	Earthy	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	
15	857	2-hexen-ol	Alcohols	Fruity	-	-	-	-	-	-	-	-	+	+	+	+	+	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	
16	878	Isoamyl Acetate	Esters	Fruity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-		

[illegible]

