

Comparison of aroma and taste profiles between two fermented pea pastes using intelligent sensory analysis and gas chromatography-mass spectrometry

Supporting Materials

Table S1. Relative content based on GC-MS characterization (Mean \pm SD).

Type	Compound	CAS	Rt	LRI	Samples	
					SL	ZL
Alcohols	2-Methyl-1-propanol	78-83-1	3.56	1064	1.58 \pm 0.16	ND
	Isopropyl alcohol	67-63-0	2.63	516	34.33 \pm 1.11	31.21 \pm 1.67
	Ethanol	64-17-5	6.23	537	13.10 \pm 0.01	0.06 \pm 0.01
	1-Cyclopropylethano	765-42-4	3.86	989	ND	0.06 \pm 0.01
	Propylene glycol	57-55-6	4.47	755	0.01 \pm 0.00	ND
	Carveol	99-48-9	15.03	1215	ND	0.09 \pm 0.07
	L-leucinol	7533-40-6	5.63	759	ND	0.38 \pm 0.02
	DL-alaninol	6168-72-5	3.73	722	ND	0.04 \pm 0.00
	6-Amino-1-hexanol	4048-33-3	6.01	1026	0.01 \pm 0.00	ND
	5-Methoxy-1-pentanol	4799-62-6	6.17	1149	0.03 \pm 0.00	ND
	5-Methyl-hexen--ol	50551-88-7	4.49	643	0.01 \pm 0.00	0.10 \pm 0.00
	5-Hexen-ol	626-94-8	9.03	879	ND	0.09 \pm 0.00
	4-Penten-2-ol	625-31-0	9.71	1272	0.35 \pm 0.02	2.99 \pm 0.16
	4-Methoxy-1-butanol	111-32-0	4.09	818	0.03 \pm 0.01	ND
	2-Methyl-1,3-propanediol	2163-42-0	7.05	1176	0.03 \pm 0.01	ND
	3-Chlorobutan-2-ol	563-84-8	7.46	812	0.06 \pm 0.01	0.45 \pm 0.02
	3-Methyl-2-butanol	598-75-4	7.50	679	0.01 \pm 0.00	ND
	2-Nitroethanol	625-48-9	4.94	1194	0.01 \pm 0.00	ND
	2-(Hydroxymethyl)-1,3-propanediol	4704-94-3	5.42	602	ND	0.07 \pm 0.01
	2-Butanol	78-92-2	5.65	638	0.39 \pm 0.01	ND
	DL-2-amino--methyl-1-butanol	16369-05-4	3.26	1112	ND	0.32 \pm 0.02
	2,4-Pentanediol	625-69-4	4.31	823	0.02 \pm 0.00	ND
	2,3-Butanediol	513-85-9	7.40	795	0.01 \pm 0.00	ND
	1-Pentanol	71-41-0	5.27	764	6.32 \pm 0.53	0.58 \pm 0.01
	Amino-2-propanol	78-96-6	5.20	829	ND	0.11 \pm 0.03

Aldehydes	(S)-(+)-2-hexanol	52019-78-0	5.76	871	0.01±0.00	ND
	(R)-(-)-1,2-propanediol	4254-14-2	4.98	1075	0.01±0.00	0.22±0.03
	Hexanal	66-25-1	6.81	802	0.01±0.00	0.01±0.00
	Methoxyacetaldehyde	10312-83-1	2.85	923	0.03±0.01	2.81±0.13
	3-Methoxy-propionaldehyde	2806-84-0	7.27	1121	ND	0.29±0.02
	2-Methylundecanal	110-41-8	10.24	1368	ND	0.04±0.01
	3-hydroxy-2,2-dimethylpropanal	597-31-9	6.84	738	ND	0.31±0.03
Acids	Ethylboronic acid	4433-63-0	3.97	713	0.07±0.01	1.40±0.12
	Glutaric acid	110-94-1	5.50	780	ND	0.22±0.01
	Ketomalonic acid monohydrate	560-27-0	2.93	1164	ND	0.33±0.02
	Lactic acid	50-21-5	6.39	779	0.01±0.00	ND
	Formic acid	64-18-6	7.37	1035	27.16±0.65	28.44±0.78
	Hydrazoic acid	7782-79-8	2.72	674	6.03±0.80	ND
	Benzoic acid	65-85-0	19.22	1171	0.01±0.00	ND
	L-lactic acid	79-33-4	7.53	933	ND	0.44±0.05
	4-Bromobutyric acid	2623-87-2	5.91	709	ND	0.03±0.00
	3-Hydroxybutyric acid	625-71-8	3.59	1153	ND	0.62±0.03
	3,5-Di-tert-butyl-4-hydroxybenzoic acid	1421-49-4	7.11	1068	ND	0.33±0.03
	Ethyl isobutyrate	97-62-1	5.76	754	0.12±0.00	ND
Esters	Isoamyl acetate	123-92-2	9.22	955	0.33±0.01	ND
	Isobutyl acetate	110-19-0	4.02	762	0.03±0.00	ND
	Ethyl acetate	141-78-6	3.40	577	2.93±0.06	0.42±0.03
	Ethyl lactate	97-64-3	3.07	1351	0.01±0.00	0.76±0.05
	2-Methoxyethyl cyanoacetate	10258-54-5	3.08	1059	ND	0.29±0.01
	Ethyl n-methoxycarbamate	3871-28-1	2.63	958	6.19±0.09	ND
	Methyl formate	107-31-3	4.89	1651	0.24±0.02	10.63±0.32
	Trilinolein	537-40-6	6.33	848	0.01±0.00	ND
	Ethyl butyrate	105-54-4	6.83	1067	0.03±0.00	ND
	Ethyl propionate	105-37-3	4.73	974	0.04±0.00	ND
	Ethyl carbamoylacetate	7597-56-0	5.45	1181	ND	0.12±0.02
	Ethyl 3-methylvalerate	5870-68-8	13.76	1182	0.02±0.01	ND
Ketones	2-Hydroxyethyl formate	628-35-3	2.50	606	ND	0.61±0.03
	Acetone	67-64-1	2.73	529	ND	11.39±0.20

	Acetoin	513-86-0	5.78	1292	0.01±0.00	ND
	2-Pentanone	107-87-9	4.32	966	ND	0.48±0.02
	2-Heptanone	110-43-0	9.71	1174	ND	0.34±0.01
	Methoxyacetone	5878-19-3	3.85	1137	0.15±0.02	ND
	Trans-2,3-epoxybutane	21490-63-1	3.03	1110	ND	1.04±0.03
	Styrene	100-42-5	9.66	876	0.02±0.01	ND
	4-Methoxybut-1-ene	4696-30-4	2.92	1025	0.03±0.00	ND
Heterocycles	4-Methyl-1-hepten-3-ol	1186-31-8	5.75	747	ND	0.06±0.01
	1-methoxypentane	628-80-8	5.85	737	ND	0.07±0.00
	2-Butene oxide	3266-23-7	4.04	704	0.12±0.02	ND
	Glycidyl methyl ether	930-37-0	5.69	950	0.01±0.00	0.20±0.01
	1,2-Dimethoxyethane	110-71-4	7.48	935	0.02±0.00	0.63±0.07
	Dimethyl ether	115-10-6	4.24	707	0.02±0.00	0.77±0.04
Others	2-Isopropoxy-ethylamine	81731-43-3	3.79	963	0.03±0.00	ND
	2-Allyloxyethanol	111-45-5	9.70	863	ND	0.19±0.01
	O-cymene	527-84-4	14.79	1298	0.01±0.00	ND

"ND" indicates that the substance was not detected.