

Table S1. Changes in volatile flavor compounds of bacon during LTS.

	Volatile compounds (µg/kg)	CAS	0	2	4	6	8	10
Aldehydes	Furfural	98-01-1	0.62±0.41 ^c	1.18±0.70 ^c	0.46±0.37 ^c	735±189 ^a	672±33.5 ^a	337±115 ^b
	Nonanal	124-19-6	6.58±4.93 ^a	34.2±8.54 ^{ab}	58.9±5.55 ^b	137±41.5 ^a	111±12.5 ^a	133±24.9 ^a
	Decanal	112-31-2	2.40±0.99 ^c	3.20±0.76 ^c	3.91±0.92 ^c	9.76±3.54 ^{ab}	13.2±5.55 ^a	7.17±1.46 ^{bc}
	Tetradecanal	124-25-4	0.69±0.43 ^b	2.02±0.68 ^b	2.83±0.24 ^b	6.71±0.79 ^a	8.17±1.38 ^a	8.24±2.44 ^a
	Pentadecanal	2765-11-9	2.03±1.88 ^c	5.93±4.35 ^{abc}	3.98±0.86 ^{bc}	10.3±1.53 ^a	8.33±2.32 ^{ab}	9.73±2.03 ^a
	Hexadecanal	629-80-1	1.63±0.65 ^c	30.6±3.16 ^c	98.2±21.2 ^b	241±34.8 ^a	107±6.75 ^b	245±32.3 ^a
	Octadecanal	638-66-4	0.48±0.11 ^e	2.75±0.50 ^d	5.61±1.13 ^c	14.1±2.05 ^a	8.33±0.70 ^b	14.7±5.56 ^a
	Dihydropyran-3-one	23462-75-1	0.30±0.12 ^b	2.98±1.30 ^b	5.08±1.25 ^b	42.1±8.66 ^a	38.9±1.39 ^a	38.7±5.91 ^a
	3-methylcyclopent-2-en-1-one	2758-18-1	0	0.30±0.23 ^b	72.0±21.7 ^b	537±91.7 ^a	513±34.5 ^a	511±100 ^a
	4-methyl-2H-furan-5-one	22122-36-7	0	0	0.01±0.02 ^b	193±27.6 ^a	181±11.9 ^a	200±29.4 ^a
Ketones	3-methylcyclohex-3-en-1-one	31883-98-4	0	7.58±0.14 ^b	17.6±0.41 ^b	116±17.5 ^a	99.5±7.98 ^a	94.9±21.1 ^a
	2-Furanone, 2,5-dihydro-3,5-dimethyl		0.02±0.03 ^b	18.9±2.70 ^b	48.1±3.75 ^b	353±48.6 ^a	342±24.6 ^a	338±64.2 ^a
	3-Methyl-1,2-cyclopentanedione	765-70-8	38.6±1.26 ^b	62.3±3.70 ^b	63.6±4.27 ^b	1553±95.9 ^a	1569±289 ^a	1592±217 ^a
	2,3-Dimethyl-2-cyclopentene-1-one	1121-05-7	0	51.5±2.27 ^b	109±7.54 ^b	561±43.3 ^a	570±76.9 ^a	546±105 ^a
	3-methylcyclopentane-1,2,4-trione	4505-54-8	0	10.6±0.43 ^b	21.0±0.81 ^b	123±21.9 ^a	113±26.8 ^a	99.0±22.0 ^a
	4,5-dimethylhex-4-en-3-one	17325-90-5	0	7.48±1.68 ^b	19.9±2.08 ^b	136±31.4 ^a	132±28.2 ^a	128±18.58 ^a
	phenylacetone	103-79-7	0.01±0.02 ^d	0.20±0.10 ^d	2.94±0.60 ^c	16.1±1.15 ^a	12.9±2.16 ^b	12.6±1.87 ^b
	2-ethyl-3-methyl-2-cyclopenten-1-one	5682-72-4	0	5.72±0.46 ^b	12.3±0.96 ^b	79.7±11.1 ^a	71.7±11.9 ^a	66.6±9.67 ^a
	2',4'-dihydroxyacetophenone	89-84-9	0	0	0.01±0.01 ^c	108±10.59 ^a	69.1±26.3 ^b	108±14.2 ^a
	3,4-dimethyl-2H-furan-5-one	1575-46-8	0.29±0.16 ^c	0.42±0.26 ^c	13.2±0.47 ^c	145±16.4 ^a	121±17.8 ^b	136±15.7 ^{ab}
Esters	dihydro-3-methyl-2(3H)-Furanone	1679-47-6	0.26±0.13 ^b	0.33±0.31 ^b	6.03±1.83 ^b	26.3±4.95 ^a	28.8±4.74 ^a	22.6±3.53 ^a
	Methyl n-caprate	110-42-9	0	1.04±0.14 ^c	1.72±0.25 ^c	7.61±0.66 ^b	10.6±1.27 ^a	8.75±1.88 ^{ab}
	Methyl hexadecanoate	112-39-0	0.47±0.34 ^b	0.73±0.31 ^b	1.36±0.36 ^b	6.88±4.43 ^a	3.75±1.31 ^{ab}	7.48±1.38 ^a
	dibutyl benzene-1,4-dicarboxylate	1962-75-0	33.6±27.9 ^{ab}	11.8±13.5 ^b	53.3±83.5 ^{ab}	239±205 ^a	68.8±43.3 ^{ab}	157±78.2 ^{ab}
	2-methylbutyric acid	116-53-0	0	1.44±0.63 ^b	4.89±1.13 ^b	52.7±11.3 ^a	43.8±3.33 ^a	44.7±10.5 ^a
	valeric acid	109-52-4	0.01±0.01 ^b	0.46±0.15 ^b	0.86±1.08 ^b	67.3±15.5 ^a	47.1±9.65 ^b	56.5±10.14 ^{ab}
	Octanoic acid	124-07-2	0	0.02±0.02 ^c	2.20±1.80 ^c	50.2±5.01 ^{ab}	41.0±11.9 ^b	53.1±5.01 ^a
	Decanoic acid	334-48-5	0	0	0.01±0.02 ^b	14.0±3.99 ^a	15.2±5.32 ^a	13.1±2.11 ^a
	Palmitic acid	57-10-3	2.70±0.06 ^b	9.40±6.30 ^b	9.49±6.57 ^b	44.0±32.6 ^a	22.5±1.45 ^{ab}	17.1±5.68 ^{ab}
	2-Acetyl-5-methylfuran	1193-79-9	0.11±0.05 ^b	5.02±0.79 ^b	35.9±5.15 ^b	254±16.1 ^a	242±34.1 ^a	244±35.8 ^a
Furans	Limonene	138-86-3	0.84±0.05 ^c	3.48±0.86 ^b	1.17±0.21 ^c	7.53±0.56 ^a	8.15±1.14 ^a	3.84±1.34 ^b
	5-methyldecane	13151-35-4	1.55±0.28 ^b	1.80±0.22 ^b	4.64±0.12 ^b	23.1±3.00 ^a	26.8±6.95 ^a	21.9±4.68 ^a
	Dodecane	112-40-3	4.73±1.68 ^b	5.38±1.35 ^b	5.20±0.82 ^b	12.8±2.72 ^a	12.1±2.81 ^a	5.68±1.64 ^b
	2,6,11-Trimethyldodecane	31295-56-4	4.41±2.10 ^{bc}	3.79±0.66 ^c	3.19±0.42 ^c	8.41±3.46 ^{ab}	10.2±2.62 ^a	4.64±0.78 ^{bc}
Alkanes	Tetradecane	629-59-4	2.97±0.50 ^c	4.22±1.12 ^c	4.38±0.74 ^c	24.3±5.59 ^b	33.6±6.42 ^a	24.8±2.56 ^b

	Pentadecane	629-62-9	1.10±0.26 ^c	2.84±0.13 ^c	3.55±0.49 ^c	29.8±4.31 ^b	31.0±9.45 ^b	40.2±3.45 ^a
	Hexadecane	544-76-3	3.18±1.48 ^c	2.14±0.27 ^c	3.99±2.33 ^c	14.5±3.70 ^b	16.3±3.33 ^b	22.4±2.50 ^a
	Heptadecane	629-78-7	1.24±0.12 ^b	1.64±0.13 ^b	1.73±0.14 ^b	6.32±1.57 ^a	5.25±0.12 ^a	5.66±0.89 ^a
	Eicosane	112-95-8	0.56±0.52 ^c	2.32±0.34 ^c	5.25±1.2 ^b	13.2±1.38 ^a	7.8±2.6 ^b	13.5±1.32 ^a
	1,2,3-Trimethoxybenzene	634-36-6	0	0.99±0.10 ^c	2.72±0.44 ^c	31.8±6.75 ^a	22.8±3.11 ^b	26.3±4.02 ^{ab}
	3-methylbut-2-enylbenzene	4489-84-3	0.01±0.01 ^b	0.62±0.82 ^b	2.82±0.36 ^b	22.2±3.83 ^a	18.1±2.41 ^a	19.1±2.71 ^a
Nitrides	N,N-Dibutylformamide	761-65-9	0	22.6±3.91 ^{cd}	18.3±1.86 ^d	33.1±5.48 ^{bc}	37.1±6.01 ^b	59.5±10.9 ^a

Results were expressed as mean ± standard derivation. ^{a-e} Means within rows and same breed with different superscripts differ significantly ($P < 0.05$, differences between fumigation time).