

Table S1. Mean values of the RoboBEER foam and color parameters with letters of significance (a – k) according to the ANOVA and Fishers least significant difference *post hoc* test ($\alpha = 0.05$). Abbreviations of the samples are found in Table 1.

Sample	MaxVol (mL)	TLTF (s)	LTF (s)	OH (unitless)	CO ₂ (ppm)	L	a	b	R	G	B	SmBubb	MedBubb	LgBubb	FDrain (mL s ⁻¹)
BC	12.67abc	815.19abc	651.69ab	245.67bcde	10955.00abc	88.22fghi	-2.79def	12.49bcd	194.05efg	186.70fgh	143.80efg	755.33ab	12.00a	2.67a	59.17efgh
BL	10.72abc	1076.38abc	993.35ab	242.00bcd	3447.67a	91.03ghij	-4.81abc	22.57fg	216.49hijk	203.17hij	125.31de	1080.33abc	14.67a	1.33a	67.86ghi
C	8.32a	683.18abc	508.04ab	220.33bc	8062.33ab	92.50hij	-2.28ef	8.57b	214.17ghijk	210.24ijk	177.02jk	616.67a	19.67a	7.33abc	63.78fgh
CS	8.89ab	276.36a	223.90a	232.67bc	15450.33bcd	85.57ef	-3.82bcd	13.32cd	178.15cde	174.53ef	129.86ef	810.67ab	18.00a	3.67ab	53.00defg
H	23.23abcd	1392.70abcd	1180.75abc	241.33bcd	19462.33cde	93.94j	-2.31ef	7.99ab	221.70jk	218.87jk	186.74k	1471.33abc	13.00a	1.67a	38.05bcd
IG	20.58abcd	1107.95abc	979.18ab	196.33ab	24697.00def	87.97fgh	-4.85ab	23.88 g	200.30fghi	186.35fgh	110.00d	1464.67abc	0.00a	0.00a	44.62cde
L	28.73cd	2489.43cd	2503.47cde	345.33fg	32699.00f	90.45ghij	-4.04bcd	14.13cd	203.98fghij	199.92hij	148.40fgh	3726.00d	2.67a	0.67a	44.51cde
LC	25.43abcd	2258.77abcd	3178.40de	328.00efg	32593.00f	58.52b	19.72 j	30.82h	129.52b	54.49b	25.22b	4635.33d	60.00ab	12.33bc	52.39cdefg
LF	17.25abc	741.63abc	867.95ab	231.33bc	32499.00f	56.97b	21.70k	29.61h	126.43b	49.72ab	24.46b	2017.33c	0.67a	1.00a	62.41efgh
LG	24.99abcd	1305.68abcd	1744.90bcd	382.00g	32627.33f	88.64fghi	-4.55bc	19.21ef	199.02fghi	189.93fgh	125.15de	4084.33d	2.00a	2.00a	53.25defg
LK	28.20bcd	2397.67bcd	3404.47e	352.67fg	32376.33f	69.70c	13.57i	22.11fg	160.71c	90.46c	58.06c	4808.67d	108.67bc	15.67c	56.65efgh
LW	56.95ef	5070.05e	5014.93f	373.33g	32700.67f	74.81d	-0.14g	58.67k	171.92cd	118.51d	16.80ab	999.00abc	169.00c	8.67abc	52.39cdefg
OG	61.87f	7544.00f	3111.10de	328.67efg	32147.67f	92.88ij	-2.87def	10.51bcd	217.41ijk	213.34ijk	173.05ijk	1897.67bc	1.00a	2.00a	18.13a
OT	39.60de	3392.13de	1230.67abc	331.00fg	33452.00f	94.65j	-3.52bcde	13.34cd	229.82k	223.87k	171.30ijk	892.33abc	20.00a	5.33ab	25.87ab
P	14.92abc	1058.57abc	948.25ab	205.67abc	25731.67ef	92.81ij	-3.34cde	13.23cd	219.33ijk	212.90ijk	162.94hij	791.33ab	17.67a	5.00ab	49.04cdef
PU	11.39abc	525.48abc	447.41ab	213.67bc	7076.33ab	86.98efg	-3.62bcde	14.95de	187.55def	180.54fg	130.54ef	735.67ab	15.67a	3.67ab	72.39hi
RT	15.12abc	833.92abc	807.23ab	127.33a	20248.00cde	83.07e	-6.19a	42.50i	187.46def	161.14e	53.79c	1304.67abc	12.67a	2.33a	50.93cdefg
SA	17.43abc	1472.11abcd	1306.28abc	283.00cdef	14724.00bc	90.11fghij	-1.60fg	3.71a	195.25efg	196.61ghi	181.74jk	1599.67abc	5.67a	1.33a	46.39cdef
XX	7.00a	291.69ab	263.03a	324.00defg	9041.33ab	88.93fghi	-2.12ef	9.64bc	196.21efgh	189.98fgh	155.77ghi	602.67a	15.00a	2.67a	85.85i
Z	23.97abcd	1928.27abcd	1527.00abc	326.33efg	27128.00ef	45.75a	10.58h	48.02j	70.80a	33.01a	1.77a	1577.00abc	31.67ab	3.67ab	34.09abc

Abbreviations: MaxVol = maximum volume of foam, TLTF = total lifetime of foam, LTF = lifetime of foam, OH = alcohol, CO₂ = carbon dioxide, L, a, b = color in CIELab, R, G, B = color in RGB, SmBubb = small bubbles, MedBubb = medium bubbles, LgBubb = large bubbles, FDrain = foam drainage

Table S2. Mean values of the peak area of the aromatic volatile compounds with letters of significance (a – l) according to the ANOVA and Fishers least significant difference *post hoc* test ($\alpha = 0.05$). Abbreviations of the samples are found in Table 1.

Sample	Ethyl caproate	oTolualdehyde	Phenylethyl alcohol	Ethyl octanoate	Ethyl decanoate	Ethyl laurate
BC	5001658e	0.00a	10759497hi	14309746abcd	1100097a	368636a
BL	4516515cde	0.00a	11627553ij	28715969efgh	12563413i	1328272ab
C	5089539ef	0.00a	6119301d	8088524ab	1480868a	469418a
CS	6872809hi	4497461b	4234976c	38968610ghij	37259709l	9975924f
H	5012170e	0.00a	13295506k	26409845defgh	5496701bcde	1249118ab
IG	3670413ab	0.00a	11705857ij	4956017a	2237328ab	1073494ab
L	7905441jk	0.00a	14908408l	17071017abcde	2710019abc	547758a
LC	4242426bcd	0.00a	12580241jk	24998384cdef	9834948ghi	876411ab
LF	3904372bc	0.00a	9156473efg	16644893abcde	6212259cdef	548356a
LG	5037887e	0.00a	7713013e	33138101fghi	21473078j	4281275e
LK	3123362a	45776003c	8092710ef	19496750bcde	9007489efgh	1877719bc
LW	7414397ij	0.00a	0.00a	48208625j	21337240j	1447583ab
OG	8413065k	0.00a	5671559cd	51766837j	36769371l	2745640cd
OT	6158443gh	0.00a	9489063fgh	44555273ij	25877473k	2716180cd
P	4618063cde	0.00a	16766285m	23343994cdef	9163781fghi	824903ab
PU	5797682fg	0.00a	2482633b	26837362defgh	11194944hi	2865298cd
RT	4432449cde	1283409a	0.00a	39295571hij	19474568j	3196550de
SA	4864068de	0.00a	10380434ghi	26108302cdefg	6861893defg	461934a
XX	4179057bcd	0.00a	12542986jk	6596109a	3840420abcd	950486ab
Z	4093310bc	0.00a	13226471k	13351556abc	4213834abcd	434143a

Table S3. Mean values of the chemical data with letters of significance (a – q) according to the ANOVA and Fishers least significant difference *post hoc* test ($\alpha = 0.05$). Abbreviations of the samples are found in Table 1.

Sample	TDS	Econd	Salt	pH	Brix	Alcohol
BC	765.33cde	1628.00cd	0.06bc	4.69p	5.37de	5.29j
BL	797.00ef	1695.33cd	0.06c	4.18h	6.57g	5.16 i
C	658.00b	1399.67b	0.05b	4.22j	5.37de	4.62 g
CS	904.33gh	1923.67e	0.07d	4.21ij	5.20cd	5.82 k
H	738.00c	1569.67c	0.06c	4.54n	4.87ab	4.97 h
IG	1009.33i	2147.33g	0.08de	4.03g	6.87h	6.53 o
L	898.67g	1745.00d	0.07d	4.19hi	7.50i	6.68p
LC	1207.00l	2567.67i	0.10 g	2.85a	9.13k	3.52b
LF	1226.00l	2608.00i	0.10g	2.92b	10.83n	2.53a
LG	904.33gh	1924.00e	0.07d	3.09c	7.77j	4.51e
LK	1148.00k	2608.33i	0.10g	3.10c	10.33m	3.53b
LW	933.13h	2016.55efg	0.08de	4.27l	5.53e	6.47m
OG	999.33i	2125.67fg	0.07d	3.75e	6.00f	6.00l
OT	920.01gh	1974.96ef	0.08ef	3.29d	7.50i	6.50 n
P	755.33cd	1607.00cd	0.05bc	4.66o	4.67a	4.56 f
PU	805.00f	1712.33cd	0.06c	4.38m	5.97f	4.46d
RT	736.67c	1566.67bc	0.07d	4.24jk	7.77j	6.02l
SA	782.00def	1663.67cd	0.06bc	3.98f	4.67a	4.21c
XX	468.67a	996.67a	0.02a	4.06g	5.00bc	4.52e
Z	1100.33j	2340.67h	0.09f	4.26kl	9.93l	9.47q