

Supplementary Materials: Analysis of the Biochemical and Volatile Components of Qi-anlincha and Qiandingcha Prepared from Eurya alata Kobuski and Camellia cuspidate

Linlong Ma, Yong Yang, Dan Cao, Yanli Liu, Ziming Gong, Sezai Ercisli, Zhengfei Luo and Xiaofang Jin

Table S2. Analysis of the volatile component contents of the three tea samples (%)

Volatile components	GT	QLC	QDC
isovaleraldehyde	0.15±0.01	—**	0.13±0.01*
2-methylbutyraldehyde	0.32±0.02	—**	0.12±0.01**
pentanal	0.40±0.14	—**	—**
hexaldehyde	1.63±0.07	0.16±0.01**	0.09±0.01**
furfural	—	—	0.47±0.06**
(E)-2-hexenal	—	0.08±0.01**	0.08±0.01**
heptanal	2.26±0.08	0.79±0.02**	0.27±0.01**
benzaldehyde	0.19±0.03	0.92±0.06**	0.71±0.09**
octanal	0.50±0.09	0.32±0.02**	—**
(E)-2-heptenal	0.08±0.01	—**	—**
(E,E)-2,4-heptadienal	—	0.59±0.01**	0.38±0.02**
phenylacetaldehyde	0.25±0.02	0.44±0.01*	1.20±0.12**
2,6-dimethyl-5-heptenal	0.11±0.02	—**	—**
nonanal	6.87±0.71	4.39±0.17**	—**
safranal	0.49±0.02	—**	—**
(E)-2-nonenal	0.19±0.02	0.41±0.01**	0.21±0.01*
capraldehyde	1.98±0.21	1.21±0.05**	0.28±0.01**
3-heptylacrolein	—	0.30±0.02**	0.13±0.03**
citral	—	0.48±0.05**	—
β-cyclocitral	0.38±0.01	1.14±0.03**	0.64±0.01**
2-undecenal	—	0.21±0.01**	—
(Z)-3,7-dimethylocta-2,6-dienal	—	0.37±0.01**	—
2-phenyl-2-butenal	—	—	0.25±0.04**
undecanal	—	0.17±0.01**	—
Total aldehydes	15.79±0.92	11.99±0.31**	4.94±0.37**
benzyl alcohol	0.24±0.05	—**	—**
α-terpineol	0.13±0.13	1.81±0.12**	4.18±0.13**
nerol	—	0.56±0.05**	1.22±0.06**
geraniol	7.53±0.18	10.46±0.42**	3.41±0.15**
(-)-terpinen-4-ol	—	—	7.31±0.09**
T-cadinol	—	0.45±0.04**	—
nerolidol	—	1.30±0.03**	0.34±0.01**
(2Z)-2-octene-1-ol	0.27±0.01	—**	—**

leaf alcohol	0.43±0.04	—**	—**
linalool	6.18±0.39	11.19±0.23**	28.28±0.25**
3,7-dimethyl-6-octen-3-ol	-	-	7.89±0.12**
phenethyl alcohol	0.42±0.04	0.10±0.04**	—**
cis-linalool oxide	0.29±0.01	0.28±0.14	0.23±0.01
Total alcohols	15.50±0.78	26.15±0.07**	52.87±0.61**
cis-jasmone	-	5.90±0.28**	1.49±0.08**
β-ionone	0.54±0.12	1.02±0.04**	0.43±0.05
geranylacetone	0.79±0.17	0.74±0.02	0.31±0.03**
(Z)-7-decen-5-olide	-	0.53±0.04**	-
2,3-octadione	0.60±0.04	—**	—**
3-hexen-2-one	-	-	0.07±0.05*
methyl heptenone	0.39±0.01	0.08±0.02**	0.11±0.01**
Total ketones	2.33±0.33	8.27±0.21**	2.42±0.21
(E)-2-methyl-1,3-pentadiene	-	-	0.12±0.01**
α-phellandrene	-	0.39±0.03**	1.25±0.02**
myrcene	-	1.22±0.06**	1.83±0.11**
α-terpinene	0.10±0.01	0.58±0.10**	3.64±0.10**
(+)-dipentene	0.37±0.02	2.42±0.39**	4.63±0.38**
(E)-β-ocimene	0.27±0.01	1.13±0.12**	1.39±0.09**
3-carene	0.98±0.02	—**	—**
α-ocimene	-	1.88±0.20**	2.55±0.16**
γ-terpinene	-	0.80±0.07**	5.19±0.43**
terpinolene	-	1.42±0.19**	3.24±0.19**
(3E,5E)-2,6-dimethyl-1,3,5,7-octatetrene	-	0.46±0.01**	2.32±0.01**
(3E)-4,8-dimethylnona-1,3,7-triene	-	3.65±0.09**	-
α-farnesene	-	1.39±0.12**	0.47±0.07**
β-caryophyllene	-	0.85±0.01**	-
α-cedrene	0.66±0.17	—**	—**
α-cubebene	1.25±0.06	—**	—**
δ-cadinene	4.19±0.57	0.35±0.03**	0.32±0.04**
styrene	0.33±0.02	—**	0.15±0.01**
Total alkenes	8.15±0.71	16.55±0.94**	27.09±1.34**
methyl hexanoate	0.20±0.02	—**	—**
methyl benzoate	-	-	0.37±0.03**
(E)-hex-3-enyl butyrate	10.72±0.47	1.26±0.06**	0.52±0.01**
methyl salicylate	2.53±0.09	1.03±0.10**	1.61±0.17**
allyl-2-ethylbutyrate	0.59±0.03	—**	—**
(Z)-3-cis-3-hexenyl isovalerate	5.41±0.40	0.58±0.05**	0.23±0.01**
cis-3-hexenyl benzoate	-	0.42±0.03**	0.10±0.01**
geranyl acetate	-	2.64±0.49**	-
caproicacidhexneylester	20.88±0.28	0.41±0.04**	0.31±0.01**

(Z,Z)-3-hexenoicacid-3-hexenylester	1.28±0.14	–**	–**
Total esters	41.59±1.20	6.35±0.78**	3.14±0.21**
ethylbenzene	0.68±0.07	–**	–**
<i>p</i> -xylene	1.36±0.06	–**	–**
<i>m</i> -xylene	0.80±0.08	–**	–**
toluene	1.20±0.02	0.04±0.01**	0.07±0.01**
<i>p</i> -cymene	–	0.26±0.02*	2.77±0.26**
<i>alpha</i> , <i>p</i> -dimethylstyrene	–	–	1.29±0.02**
naphthalene	1.02±0.10	1.07±0.04	–**
2-methylnaphthalene	0.26±0.05	–**	–**
1,1,6-trimethyl-1,2-dihydronaphthalene	–	0.39±0.03**	0.20±0.03**
Total aromatic hydrocarbons	5.31±0.04	1.77±0.02**	4.33±0.26**
dimethyl sulfide	2.81±0.47	21.13±0.58**	0.24±0.14**
dodecane	–	0.21±0.01**	0.21±0.01**
hexadecane	–	0.46±0.04**	0.45±0.08**
tetradecane	–	0.41±0.01**	0.35±0.04**
indole	0.75±0.01	1.88±0.03**	–**
thymol	–	–	0.45±0.02**
2,6-di-tert-butyl-p-benzoquinone	0.36±0.09	–**	–**
2,4-di-tert-butylphenol	1.17±0.36	0.98±0.14	–*
nonanoic acid	–	0.28±0.02*	0.16±0.04**
nerol oxide	–	–	0.56±0.02**
limetol	–	–	0.06±0.01**
2-ethenyl-1,1-dimethyl-3-methylenecyclohexane	–	–	0.37±0.04**
acrylic acid	–	1.60±0.24**	–
Other components	5.09±0.02	26.94±0.78**	2.84±0.01**