

659 **Supplementary Data 1.** Identification of phenolic compounds by HPLC-DAD-ESI/MS of four white strawberry (*F. chiloensis* spp. *chiloensis* f.
 660 *chiloensis* of two seasons and two locations).

Rt (min)	λ max (nm)	MW	[M-H] ⁻ o [M+H] ⁺	+/- Ions	MS/MS ions	Tentative identification	Strawberry
2.5	275	784	783	-	481, 301	Bis-HHDP-glucoside isomer	FCC1, FCC2, FCP1, FCP2
2.8	278	578	577	-	289	Procyanidin B type	FCC1, FCC2, FCP1, FCP2
3.4	275, 512	448	449	+	287	Cyanidin-3- <i>O</i> glucoside	FCC1, FCC2, FCP1, FCP2
4.2	275	866	865	-	577, 289	Procyanidin trimer	FCC1, FCC2, FCP1, FCP2
4.7	267, 504	432	433	+	271	P-3- <i>O</i> glucoside	FCC1, FCC2, FCP1, FCP2
5.6	275	866	865	-	577, 289	Procyanidin trimer	FCC1, FCC2, FCP1, FCP2
6.1	278	934	933	-	631, 451, 301	Vescalagin isomer	FCC2, FCP1, FCP2
6.9	250, 283	934	933	-	631, 451, 301	Vescalagin isomer	FCC2, FCP1, FCP2
7.9	250, 283	934	933	-	631, 451, 301	Vescalagin isomer	FCC1, FCC2, FCP2
9.3	282	936	935	-	631, 451, 301	Casuarictin/potentillin isomer	FCC1, FCC2, FCP1, FCP2
9.6	276, 512	534	535	+	287, 449	Cyanidin-malonyl-glucoside	FCC1, FCC2, FCP1, FCP2
10.3	255, 356	434	433	-	301	EA pentoside	FCC1, FCC2, FCP1, FCP2
10.7	255, 358	448	447	-	301	EA rhamnoside	FCC1, FCC2, FCP1, FCP2
11.1	255, 362	302	301	-	229	EA	FCC1, FCC2, FCP1, FCP2
11.8	254, 351	436	435	-	303, 185, 151	Q pentoside	FCC1, FCC2, FCP1, FCP2
12.4	266, 504	534	535	+	287, 449	P-malonyl-glucoside	FCC1, FCC2, FCP1, FCP2
12.8	254, 351	478	477	-	301, 179, 151	Q glucuronide	FCC1, FCC2, FCP1, FCP2
15.3	254, 285, 355	950	949	-	905, 633, 451, 301	Casuarictin derv	FCC2, FCP2
18.3	254, 358	950	949	-	905, 633, 451, 301	Casuarictin derv	FCC1, FCC2, FCP1, FCP2
19.0	250	478	477	-	315	Methyl-EA-pentoside	FCC1, FCC2, FCP1, FCP2
20.2	254, 280	950	949	-	905, 633, 451, 301	Casuarictin derv	FCC1, FCC2, FCP1, FCP2
20.7	252, 278	494	493/447	-	315	Methyl-EA-pentoside derv	FCC1, FCC2, FCP1, FCP2
65.1	254, 285, 316	594	593	-	285, 255	K-coumaroyl-hexoside	FCC1, FCC2, FCP1, FCP2
66.6	254, 283, 319	594	593	-	284, 255	K-coumaroyl-hexoside	FCC1, FCC2, FCP1, FCP2

661 HHDP: Hexahydroxydiphenic acid; EA: ellagic acid; K: kaempferol; Q: quercetin; P: pelargonidin. FCC1 is *F. chiloensis* 'Contulmo' 2017, FCC2 is *F.*
 662 *chiloensis* 'Contulmo' 2018, FCP1 is *F. chiloensis* 'Purén' 2017, FCP2 is *F. chiloensis* 'Purén' 2018.

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Supplementary Data 2 Accumulated precipitation, relative humidity, solar radiation, maximum surface temperature and minimum surface temperature (INIA Agrometeorology Network).

Location	Months	Accumulated Precipitation (mm)	Relative Humidity (%)	Solar Radiation (Mj/m ²)	Maximum Surface Temperature (°C)	Minimum Surface Temperature (°C)
Contulmo 2017-2018	Nov-2016	317	78.9	22.5	30.9	5.5
	Dec-2016	72.3	79.3	23.8	31.5	6.8
	<i>Mean</i>	<i>194.6</i>	<i>79.1</i>	<i>23.1</i>	<i>31.2</i>	<i>6.1</i>
	Nov-2017	26.5	79.6	23.5	26.5	5.0
	Dec-2017	27.1	79.3	23.8	29.0	5.2
	<i>Mean</i>	<i>26.8</i>	<i>79.4</i>	<i>23.6</i>	<i>27.7</i>	<i>5.1</i>
Purén 2017-2018	Nov-2016	17.9	74.8	9.4	38.3	0.1
	Dec-2016	43.5	73.8	9.5	35.1	1.6
	<i>Mean</i>	<i>30.7</i>	<i>74.1</i>	<i>9.5</i>	<i>36.7</i>	<i>0.8</i>
	Nov-2017	16.7	75.3	7.3	31.7	3.2
	Dec-2017	14.7	75.5	7.2	35.3	2.0
	<i>Mean</i>	<i>15.7</i>	<i>75.4</i>	<i>7.2</i>	<i>33.5</i>	<i>2.6</i>