

**Table S4.** Carotenoid content and composition ( $\mu\text{g/g}$  FW) in the pulp of Valencia and Ruby fruits harvested in March and April. ND: non detected.

Carotenoids	Valencia		Ruby	
	March	April	March	April
Phytoene	$0.57 \pm 0.01$	$1.05 \pm 0.04$	$103.66 \pm 6.27$	$133.12 \pm 1.08$
Phytofluene	$0.15 \pm 0.01$	$0.18 \pm 0.01$	$17.82 \pm 0.15$	$18.42 \pm 3.60$
$\zeta$ -carotene	$0.17 \pm 0.02$	$0.29 \pm 0.02$	$0.40 \pm 0.17$	$0.62 \pm 0.13$
Neurosporene	ND	ND	$0.56 \pm 0.18$	$0.33 \pm 0.02$
Lycopene	ND	ND	$8.15 \pm 1.30$	$8.58 \pm 0.14$
$\delta$ -carotene	ND	ND	$0.17 \pm 0.10$	$0.13 \pm 0.01$
Lutein	$0.57 \pm 0.09$	$0.61 \pm 0.08$	$1.21 \pm 0.09$	$0.32 \pm 0.05$
$\beta$ -carotene	traces	traces	$0.62 \pm 0.12$	$0.41 \pm 0.03$
$\beta$ -cryptoxanthin	$0.55 \pm 0.06$	$0.58 \pm 0.16$	$0.32 \pm 0.11$	$0.30 \pm 0.10$
Zeaxanthin	$0.51 \pm 0.05$	$0.66 \pm 0.15$	$0.63 \pm 0.13$	$0.61 \pm 0.02$
Anteraxanthin	$1.00 \pm 0.13$	$1.20 \pm 0.12$	$0.89 \pm 0.38$	$0.98 \pm 0.26$
Violaxanthin	$2.53 \pm 0.79$	$3.70 \pm 0.11$	$1.54 \pm 0.98$	$2.30 \pm 0.03$
Luteoxanthin	$1.02 \pm 0.20$	$0.58 \pm 0.17$	$0.23 \pm 0.04$	$0.23 \pm 0.03$
Mutatoxanthin	$0.11 \pm 0.07$	$0.18 \pm 0.13$	$0.07 \pm 0.03$	$0.10 \pm 0.01$
Total carotenoids	$8.18 \pm 0.84$	$9.12 \pm 0.92$	$135.33 \pm 5.05$	$166.49 \pm 2.81$

