

Table S3. Carotenoid content and composition ($\mu\text{g/g}$ FW) in the pulp of Navel and Kirkwood fruits harvested in December and January. ND: non detected.

| Carotenoids | Navel | | Kirkwood | |
|------------------------|-----------------|-----------------|------------------|------------------|
| | December | January | December | January |
| Phytoene | 0.13 ± 0.04 | 0.35 ± 0.04 | 45.71 ± 0.60 | 56.91 ± 0.76 |
| Phytofluene | 0.03 ± 0.01 | 0.07 ± 0.01 | 9.27 ± 0.48 | 11.15 ± 1.58 |
| ζ -carotene | 0.02 ± 0.01 | 0.03 ± 0.02 | 0.20 ± 0.08 | 0.15 ± 0.01 |
| Neurosporene | ND | ND | 0.31 ± 0.06 | 0.38 ± 0.16 |
| Lycopene | ND | ND | 6.92 ± 0.18 | 8.83 ± 0.53 |
| δ -carotene | ND | ND | 0.08 ± 0.03 | 0.10 ± 0.01 |
| Lutein | 0.22 ± 0.04 | 0.33 ± 0.05 | 0.20 ± 0.10 | 0.27 ± 0.01 |
| β -carotene | ND | ND | 0.20 ± 0.02 | 0.47 ± 0.02 |
| β -cryptoxanthin | 0.23 ± 0.05 | 0.54 ± 0.26 | 0.31 ± 0.06 | 0.34 ± 0.03 |
| Zeaxanthin | 0.09 ± 0.02 | 0.25 ± 0.08 | 0.17 ± 0.06 | 0.44 ± 0.01 |
| Anteraxanthin | 0.47 ± 0.02 | 0.87 ± 0.34 | 0.12 ± 0.01 | 0.64 ± 0.01 |
| Violaxanthin | 3.70 ± 0.18 | 3.55 ± 1.34 | 1.85 ± 0.06 | 2.05 ± 0.20 |
| Luteoxanthin | 0.56 ± 0.16 | 0.92 ± 0.19 | 0.17 ± 0.03 | 0.21 ± 0.03 |
| Mutatoxanthin | 0.03 ± 0.01 | 0.14 ± 0.02 | ND | ND |
| Total carotenoids | 5.49 ± 0.20 | 7.10 ± 1.96 | 65.51 ± 0.96 | 81.94 ± 0.86 |