

Supplementary Material

Table S1. The influence of the extraction conditions on the antioxidants assays (TAC, TPC and TFC) for each fruit extract (pitanga, tangerine, tomato, uva-da-serra and lemon). Data results were normalized by Log₁₀ application.

| Antioxidant Assay | Extraction Solvent | Pitanga | Tangerine | Tomato | Uva-da-Serra | Lemon |
|-------------------|--------------------|---------|-----------|--------|--------------|-------|
| DPPH | ACN:MeOH | 2.1 | 0.51 | 0.78 | 1.2 | 0.85 |
| | ACN:EtAc | 0.29 | 0.35 | 0.19 | 0.81 | 0.90 |
| | MeOH:FA 0.1 | 2.3 | 1.1 | 0.82 | 1.3 | 1.2 |
| | MeOH | 0.17 | 0.50 | 0.37 | 0.75 | 0.88 |
| | ACN | 2.2 | 0.96 | 0.82 | 1.32 | 1.0 |
| | EtAc | 0.13 | 0.72 | 0.40 | 0.79 | 0.96 |
| | FA 0.1% | 2.0 | 1.1 | 0.69 | 1.59 | 1.0 |
| TPC | ACN:MeOH | 5.5 | 5.2 | 4.6 | 5.4 | 5.2 |
| | ACN:EtAc | 4.5 | 4.7 | 4.5 | 4.7 | 4.7 |
| | MeOH:FA 0.1 | 5.7 | 5.4 | 4.7 | 5.6 | 5.5 |
| | MeOH | 4.4 | 4.9 | 4.44 | 4.9 | 4.7 |
| | ACN | 5.6 | 5.3 | 4.7 | 5.7 | 5.5 |
| | EtAc | 4.5 | 4.6 | 4.6 | 4.7 | 4.7 |
| | FA 0.1% | 5.7 | 5.1 | 4.9 | 5.5 | 5.8 |
| TFC | ACN:MeOH | 4.7 | 3.8 | 3.3 | 5.1 | 4.3 |
| | ACN:EtAc | 3.9 | 4.0 | 4.2 | 5.0 | 4.1 |
| | MeOH:FA 0.1 | 5.0 | 4.4 | 4.1 | 5.3 | 4.7 |
| | MeOH | 2.9 | 3.5 | 2.8 | 4.6 | 3.8 |
| | ACN | 5.0 | 4.9 | 4.8 | 5.4 | 4.9 |

| | | | | | | |
|-------------|-------------|-----|-----|-----|-----|-----|
| | EtAc | 5.5 | 4.5 | 4.3 | 5.1 | 5.0 |
| | FA 0.1% | 5.4 | 5.8 | 6.0 | 5.8 | 5.5 |
| ABTS | ACN:MeOH | 4.3 | 3.9 | 3.1 | 4.3 | 3.9 |
| | ACN:EtAc | - | - | - | - | - |
| | MeOH:FA 0.1 | 4.3 | 4.2 | 3.7 | 4.3 | 4.3 |
| | MeOH | - | - | - | - | - |
| | ACN | 4.3 | 3.9 | 2.9 | 4.3 | 4.2 |
| | EtAc | - | - | - | - | - |
| | FA 0.1% | 4.2 | 3.8 | - | - | - |

Solvent extraction conditions: methanol - MeOH, acetonitrile – ACN, ethyl acetate - EtAc, formic acid 0.1 % - FA, ACN:MeOH (4:1, v/v), ACN:EtAc (1:1, v/v) and MeOH:FA (19:1, v/v).

Table S2. Literature survey of Total phenolic content (TPC), total flavonoid content (TFC), total antioxidant capacity (DPPH and ABTS assays) and inhibition of selected enzymes (α -amylase, α - and β -glucosidase, and angiotensin-converting enzyme (ACE), reported for pitanga, tangerine, lemon, tomato and uva-da-serra extracts.

| Extracts conditions | TPC | TFC | DPPH | ABTS | α -amylase ¹ | α -glucosidase ¹ | β -glucosidase ¹ | ACE ¹ | Ref |
|--|---------------------------------|------------------------------|---|--------------------------------|--------------------------------|---|-----------------------------------|------------------|-----------|
| Pitanga | | | | | | | | | |
| Seeds / pulp | 32373 / 15707 mg GAE / 100 g DW | 6112 / 5912 mg QE / 100 g DW | 17845 / 11883 mM TE / 100 g DW | 89907 / 56066 mM TE / 100 g DW | 56 / 37 | 103 / 60 | 62 / 59 | 95 | This work |
| oils from leaves | | | 15350 - 40030 mg TE / 100 g | | | | | | 1 |
| supercritical extract of seeds | 0.003-7.3 mg GAE / 100 g | | (IC ₅₀) - 460.1 - 5024.6 mg / 100 g | 532-3337 μ M TE / 100 g | | | | | 2 |
| pressurized fluid extraction of seeds (dried-12.7% H ₂ O) | 420-1680 mg GAE / 100 g DW | | | | | | | | 3 |
| pulp homogenized in ethanolic solution | 663.8 mg CAE / 100 g | | IC ₅₀ - 15.45 μ g / mL | | | IC ₅₀ - Acarbose 413.6 μ g / mL, extract 0.26 μ L / mL | | | 4 |
| | 517-908 mg CAE / 100 g FW | | IC ₅₀ - 212 - 317 μ g / mL | | | IC ₅₀ - Acarbose 413.6 μ g / mL, extract 66-212 μ g / mL | | | 5 |
| | 226.88 mg CAE / 100 mL | | 85.9 % DPPH inhibition | | | 74.2 | | | 6 |
| juice | 36.7 mg GAE / 100 mL | | | | | 69.47 % inhibition with 5 mg / mL | | | 7 |

| | | | | | | | | | |
|--|---|---|---|---|--|---|---------|------|--------------|
| pulp homogenized in methanolic solution | 4253 mg CAE / 100 g | | 20668 mM TE / 100 g | | IC ₅₀ - 5.7 mg / mL reaction solution | IC ₅₀ - 1.15 mg / mL reaction solution | | | 8 |
| leaves | 19306 mg GAE / 100 g | 2864 mg GAE / 100 g | | | | | | | 9 |
| Tangerine | | | | | | | | | |
| Peel / juice ² | 18692 / 216 ² mg GAE / 100 g DW | 2559 / 202 ² mg QE / 100 g DW | 4408 / 457 ² mM TE / 100 g DW | 37126 / 1905 ² mM TE / 100 g DW | 54 / 56 | 31 / 25 | 56 / 60 | 96 | This work |
| oil | | | | | | | | 59.2 | 10 |
| oil | | | 750-2000 mg TE / 100 mL | 1550-3000 mg TE / 100 mL | | | | | 11 |
| juices | | | 24-68 % DPPH inhibition | | | | | | 12 |
| juices | 92 mg GAE / 100 mL | 11 mg GAE / 100 mL | 64.53 % DPPH inhibition | 0.98 % ABTS inhibition | | IC ₅₀ - 12 mg / mL | | | 13 |
| freeze dried | | | 2.50 mM TE / 100g DW | 6.47 mM TE / 100 g DW | | | | | 14 |
| Lemon | | | | | | | | | |
| Peel / juice ² | 17067 / 175 ² mg GAE / 100 g DW | 3715 / 256 ² mg QE / 100 g DW | 9592 / 294 ² mM TE / 100 g DW | 32081 / 1033 ² mM TE / 100 g DW | 23 / 78 | 46 / 48 | 15 / 77 | 96 | This work |
| - | 4750 mg / 100 g | | 94.4% DPPH inhibition | | 87.3 | | | | 15 |
| oil | | | | | | | | 24.8 | 10 |
| lyophilized juice | | | | | | | | 18 | 16 |
| oil | | | 2000-2750 mg TE / 100 mL | 600-1500 mg TE / 100 mL | | | | | 11 |

| | | | | | | | | | |
|---|--------------------------|-----------------------|-------------------------------|------------------------|---|--|----|---------------------------------|-----------|
| oil | 1951-3197 mg GAE / 100 g | 229-414 mg QE / 100g | 49.29-52.32 % DPPH inhibition | | 26 | 36 | | | 17 |
| Peels hydrolysis | 488 mg GAE / 100 g DW | | | | -11.6 | 100 | | 100 | 18 |
| oil | | | | | IC ₅₀ - Acarbose 7.45 µg / mL extract 8.16 µg / mL | IC ₅₀ - Acarbose 8.44 µg / mL, extract 7.56 µg / mL | | IC ₅₀ - 6.17 µg / mL | 19 |
| juices | | | 24-5-42.0 % DPPH inhibition | | | | | | 12 |
| young lemon shoots | 8930 mg GAE / 100 g DW | | | | | | | | 20 |
| juices | 103 mg GAE / 100 mL | 14 mg GAE / 100 mL | 42.28 % DPPH inhibition | 0.72 % ABTS inhibition | | | | | 13 |
| juices | 222-236 mg GAE / 100 g | 170-189 mg QE / 100 g | 1558-1761 mM TE / 100 g | | | | | | 21 |
| Tomato | | | | | | | | | |
| <i>gordal</i> variety whole fruit | 5632 mg GAE / 100 g DW | 2152 mg QE / 100 g DW | 8217 mM TE / 100 g DW | 6389 mM TE / 100 g DW | 34 | 52 | 63 | 97 | This work |
| pulp homogenized in methanolic solution | 48 mg GAE / 100 g | | | | | | | | 22 |
| lyophilized samples | 2080-3360 mg GAE / 100 g | | | | | | | | 23 |
| locular gel and the serum | 50-110 mg GAE / 100 g | | 210-380 mM TE / 100 g | 350-700 mM TE / 100 g | | | | | 24 |
| QuEChERS | 52 mg GAE / 100 g | 24 mg QE / 100 g | 98 mM TE / 100 g | 114 mM TE / 100 g | | | | | 25 |

| | | | | | | | | | |
|---|-----------------------------|--------------------------|------------------------------------|------------------------------------|---------------------------------|---|------|-------------------------------------|-----------|
| lyophilized samples | | | | | | | | IC ₅₀ - 8.5-57.4 mg / mL | 26 |
| Peels hydrolysis | 365 mg GAE / 100 g | | | | -37.7 | | 42.5 | 100 | 18 |
| juice | 192 mg GAE / 100 g | | | | | | 72 | | 27 |
| lyophilized samples | 784-1315 mg GAE / 100 g | | | IC ₅₀ - 146-175 µg / mL | | | | | 28 |
| freeze-dried frozen puree | | | | 664-1472 mM TE / 100 g | 674-1650 mM TE / 100 g | | | | 29 |
| freeze-dried frozen puree | | | | | | | | 30-40 | 30 |
| Uva-da-serra | | | | | | | | | |
| Uva-da-serra whole fruit | 24158 mg GAE / 100 g DW | 13604 mg QE / 100 g DW | 19150 mM TE / 100 g DW | 85561 mM TE / 100 g DW | 22 | 51 | 67 | 86 | This work |
| myrtle oil | | | | | | | | 93.6 | 10 |
| blueberry juice | 128 mg GAE / 100 mL | | | 63 mM TE / 100 mL | IC ₅₀ - 2.67 mg / mL | IC ₅₀ - 40.68 mg / mL | | | 31 |
| | 7.5-24.5 mg GAE / 100 mL | 0.2-12.6 mg QE / 100 mL | | | | | | | 32 |
| blueberry pulp homogenized in methanolic solution | 185.6-929 mg GAE / 100 mL | 39.5-64.6 mg QE / 100 mL | | | | | | | 33 |
| blueberry air dried, in ethanol, | 1642-4442 mg GAE / 100 g DW | 140-922 mg QE / 100 g DW | IC ₅₀ - 141-263 µg / mL | | | IC ₅₀ - Acarbose 31 µg / mL, | | | 34 |

| | | | | | | |
|--------------------------------------|------------------------------|--------------------------|----------------------------|---|---|------------------------------------|
| methanol and water extractions | | | | | extract 301-591 µg / mL | |
| lyophilized | 885 mg GAE / 100 g DW | 1467 mg RuE /100 g DW | 180 mM TE / 100 g | IC ₅₀ - Acarbose 20 µg / mL, extract 2630 µg / mL | IC ₅₀ - Acarbose 2060 µg / mL, extract 1030 µg / mL | IC ₅₀ - 9360 µg / mL |
| dehydrated at 105 °C | 345-426 mg GAE / 100 g FW | | 11-12 mM TE / 100 g FW | | | |
| blueberry water- based extraction | 80-140 mg GAE / 100 g FW | | 70-80 % DPPH inhibition | 50-90 | 55-80 | |

¹ % inhibition, unless indicated, ² - mg GAE / 100 mL of juice.

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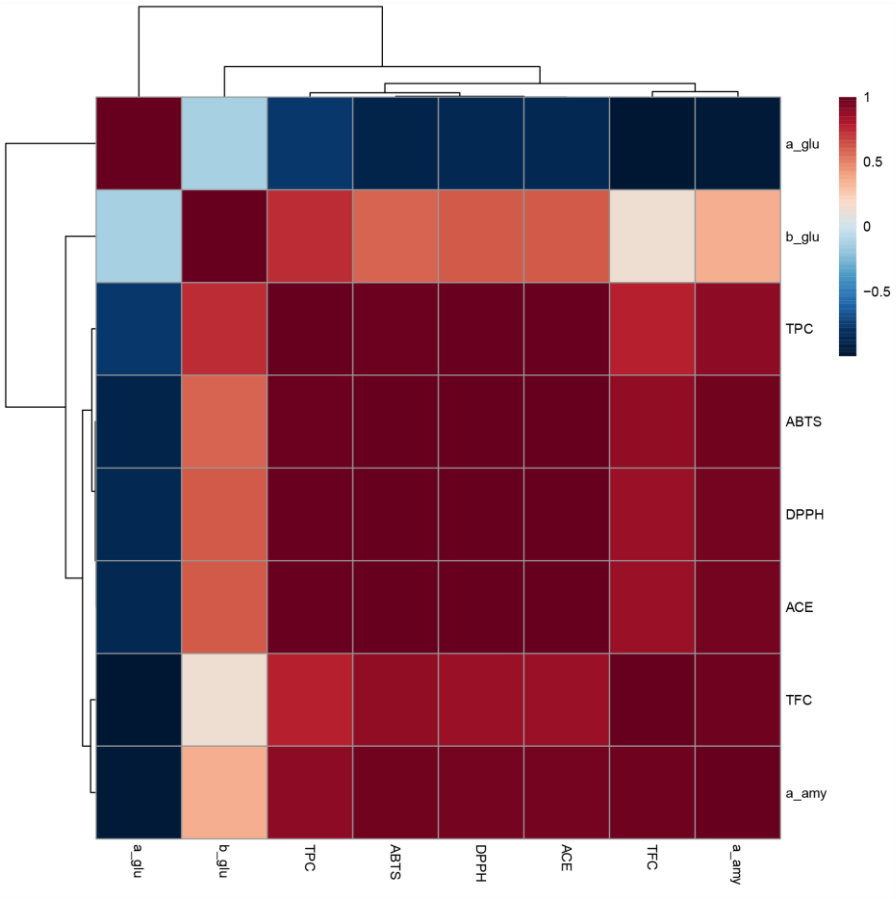
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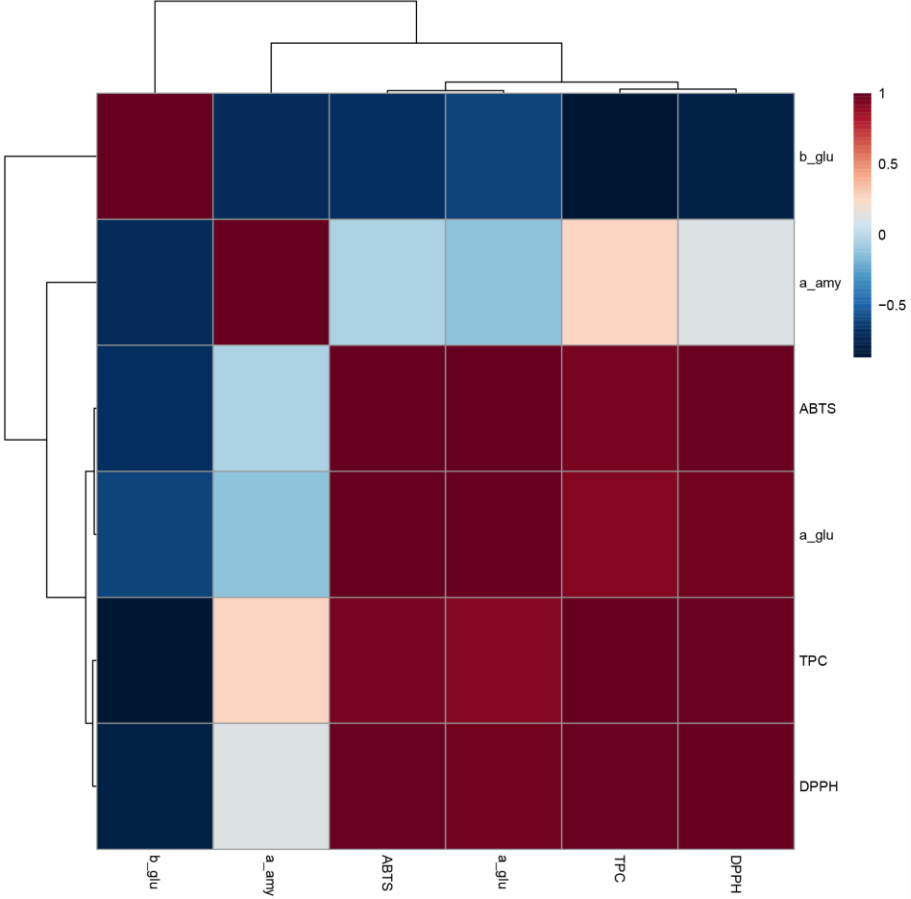
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Figure S1: Correlation dendograms obtained for the selected extracts.

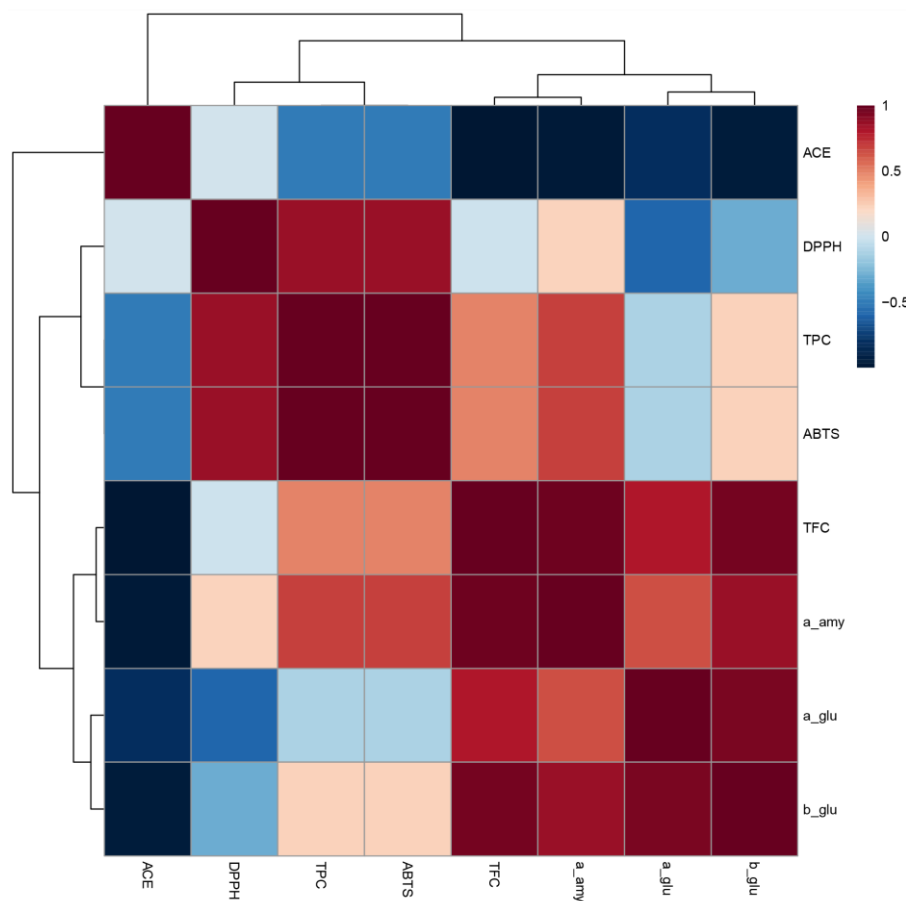
A. Pitanga seeds



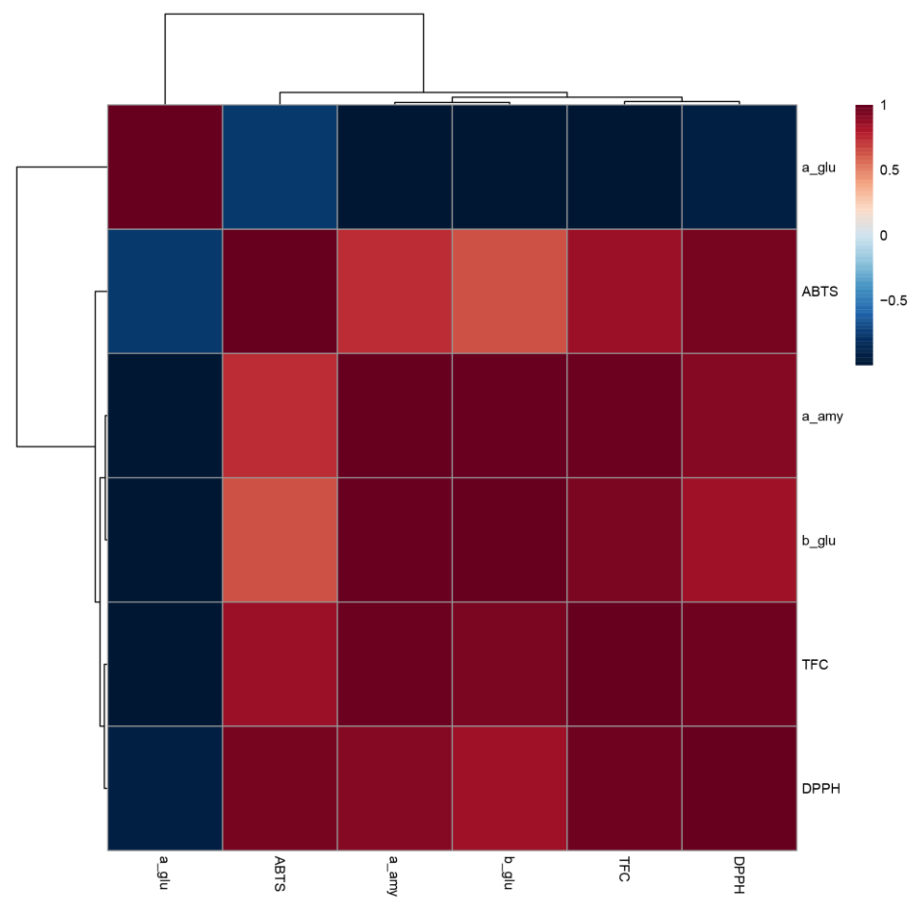
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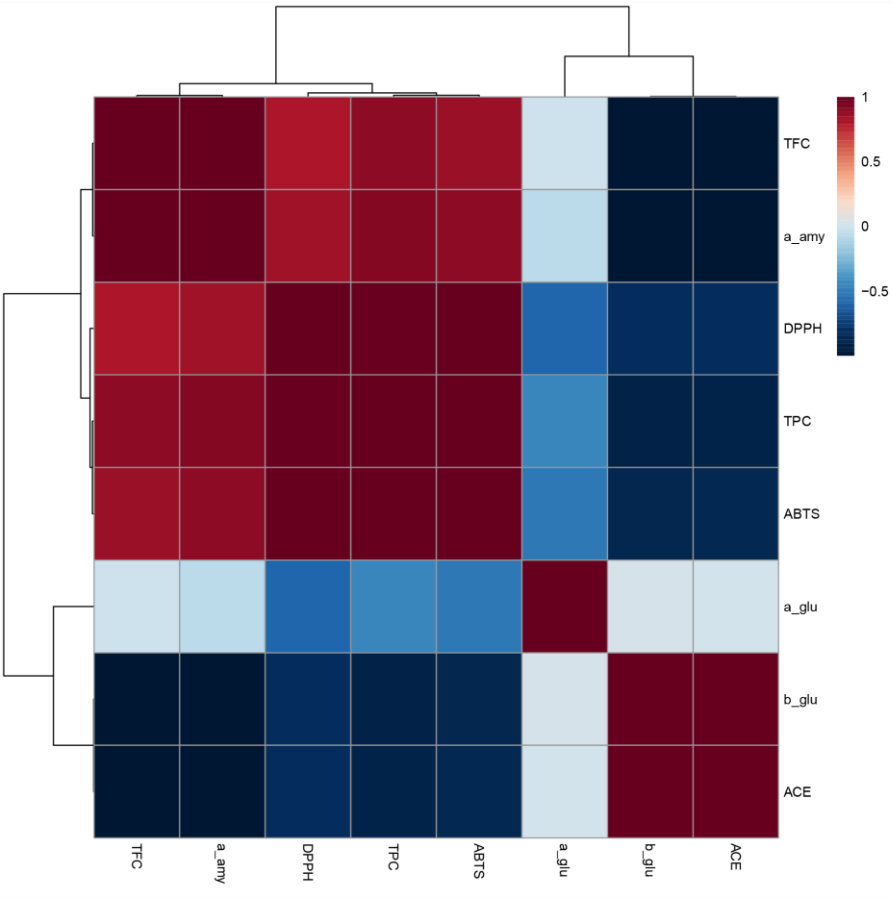
C. Lemon peel



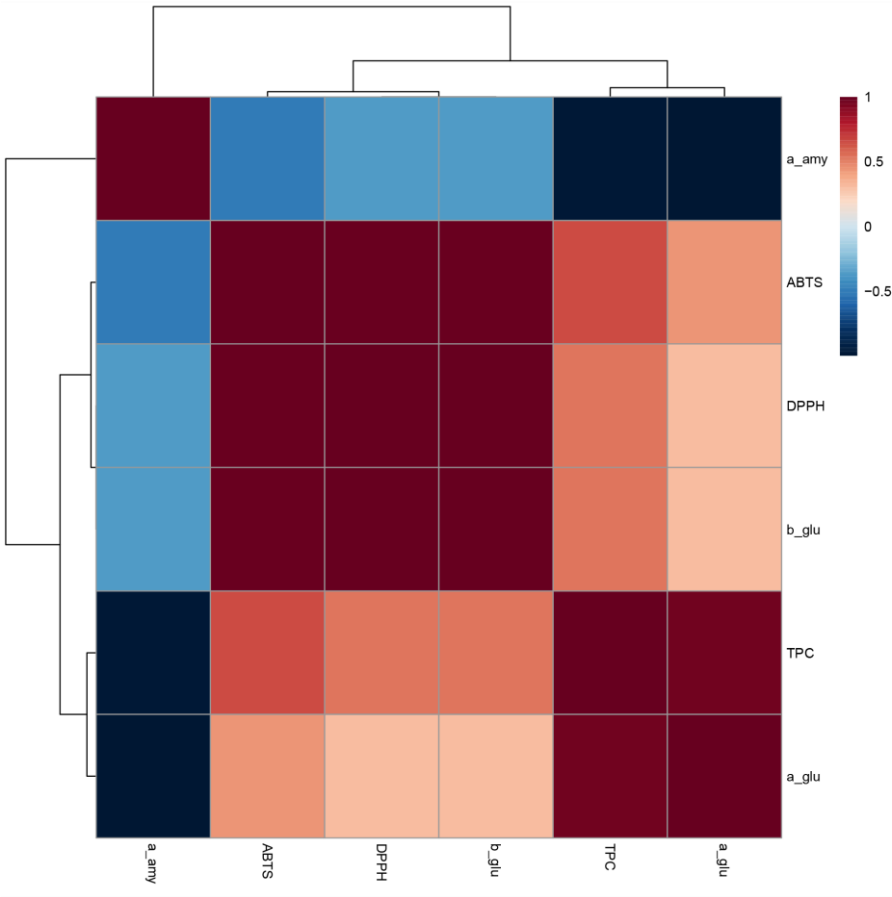
D. Lemon juice



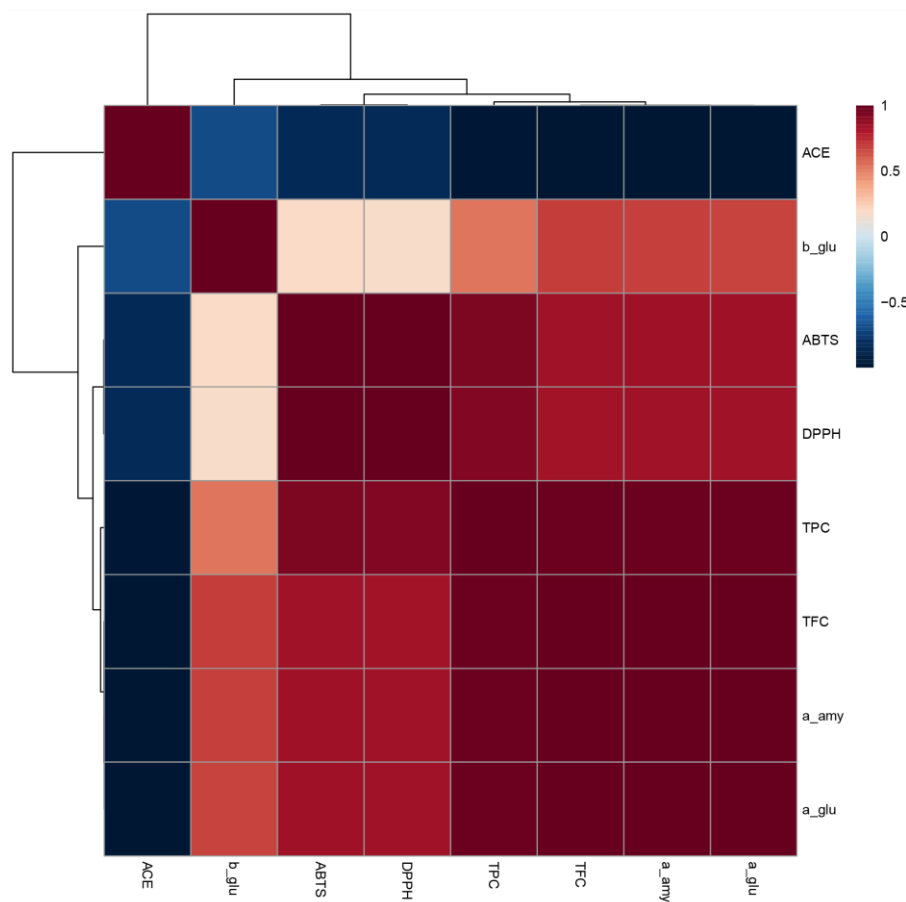
E. tangerine peel



F. tangerine juice



E. uva-da-serra



F. tomato

