

Table S1. The concentrations of hydro extracts or flavonoids used in muscle contractility test *in vitro*

| <i>Compound (MW)</i> | <i>Sample</i> | <i>Initial concentration (mg/mL)</i> | <i>Added volume (μL)</i> | <i>Final volume (mL)</i> | <i>Final concentration (μg/mL)</i> | <i>Final concentration (μmol/L)</i> |
|---|---------------|--|----------------------------------|----------------------------------|--|---|
| luteolin (286.24) | L | 0.034 | 80.00 | 20.08 | 0.135 | 0.473 |
| | M | 0.034 | 160.00 | 20.16 | 0.270 | 0.943 |
| | H | 0.034 | 320.00 | 20.32 | 0.535 | 1.871 |
| | S1 | 0.200 | 80.00 | 20.08 | 0.797 | 2.784 |
| | S2 | 0.200 | 160.00 | 20.16 | 1.587 | 5.545 |
| | S3 | 0.200 | 320.00 | 20.32 | 3.150 | 11.003 |
| | S4 | 0.200 | 640.00 | 20.64 | 6.202 | 21.666 |
| | S5 | 0.200 | 1280.00 | 21.28 | 12.030 | 42.028 |
| luteolin-7-O- glucoside (448.38) | L | 0.216 | 80.00 | 20.08 | 0.861 | 1.920 |
| | M | 0.216 | 160.00 | 20.16 | 1.714 | 3.823 |
| | H | 0.216 | 320.00 | 20.32 | 3.402 | 7.587 |
| | S1 | 0.200 | 80.00 | 20.08 | 0.797 | 1.778 |
| | S2 | 0.200 | 160.00 | 20.16 | 1.587 | 3.539 |
| | S3 | 0.200 | 320.00 | 20.32 | 3.150 | 7.025 |
| | S4 | 0.200 | 640.00 | 20.64 | 6.202 | 13.832 |
| | S5 | 0.200 | 1280.00 | 21.28 | 12.030 | 26.830 |
| eriodictyol (288.25) | L | 0.152 | 80.00 | 20.08 | 0.606 | 2.101 |
| | M | 0.152 | 160.00 | 20.16 | 1.206 | 4.185 |
| | H | 0.152 | 320.00 | 20.32 | 2.394 | 8.304 |
| | S1 | 0.200 | 80.00 | 20.08 | 0.797 | 2.764 |
| | S2 | 0.200 | 160.00 | 20.16 | 1.587 | 5.507 |
| | S3 | 0.200 | 320.00 | 20.32 | 3.150 | 10.927 |
| | S4 | 0.200 | 640.00 | 20.64 | 6.202 | 21.514 |
| | S5 | 0.200 | 1280.00 | 21.28 | 12.030 | 41.735 |
| eriodictyol-7- O-glucoside (450.39) | L | 0.637 | 80.00 | 20.08 | 2.538 | 5.635 |
| | M | 0.637 | 160.00 | 20.16 | 5.056 | 11.225 |
| | H | 0.637 | 320.00 | 20.32 | 10.031 | 22.273 |
| | S1 | 0.200 | 80.00 | 20.08 | 0.797 | 1.769 |
| | S2 | 0.200 | 160.00 | 20.16 | 1.587 | 3.524 |
| | S3 | 0.200 | 320.00 | 20.32 | 3.150 | 6.993 |
| | S4 | 0.200 | 640.00 | 20.64 | 6.202 | 13.769 |
| | S5 | 0.200 | 1280.00 | 21.28 | 12.030 | 26.710 |