**Supplementary Figures**



**Figure S1:** Chromatograms recorded at 340 nm of *M. oleifera* samples showing phenylpropanoids: 3-caffeoyl-quinic acid (peak 1), feruloylquinic acid (peak 2), isovitexin (peak 3), quercetin-3-*O*-rhamnoside (peak 4), isoquercitrin (peak 5), quercetin-3-*O*-sophoroside (peak 6), kaempferol-3-*O*-glucoside (peak 7), kaempferol derivative (peak 8), kaempferol derivative (peak 9), kaempferol derivative (peak 10).



**Figure S2:** Chromatograms recorded at 227 nm of *M. oleifera* samples showing glucosinolate derivatives: G1 (peak 1), glucomoringin (peak 2), glucotropaeolin (peak 3), G2 (peak 4), G3 (peak 5), G4 (peak 6),

G5 (peak 7), G6 (peak 8).

**Table S1:** HPLC quantification of the single polyphenols in MO leaf extract. Data are expressed as mean of three replicates ± SD (µmolg-1 DW).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Peak 1**  **3-caffeoyl-quinic acid** | **Peak2**  **feruloyl-quinic**  **acid** | **Peak 3**  **Isovitexin (apigenin-8-C-glucoside)** | **Peak4**  **quercetin-3-*O*-rhamnoside** | **Peak5**  **quercetin-3-O-glucoside** | **Peak 6**  **quercetin-3-*O*-sophoroside** | **Peak 7**  **kaempferol-3-*O*-gluocoside** | **Peak 8**  **kaempferol-derivative** | **Peak 9**  **kaempferol-derivative** | **Peak 10**  **kaempferol-derivative** |
| **India\_dried** | 6.63±0.56 | 0.99±0.09 | 1.24±0.11 | 0.08±0.01 | 6.08±0.07 | 10.77±0.97 | 1.24±0.09 | 2.84±0.26 | nd | nd |
| **Paraguay\_dried** | 8.40 ± 0.76 | 1.59 ± 0.10 | 1.50±0.13 | 5.62± 0.76 | 3.18 ± 0.29 | 9.87 ± 0.62 | 1.47 ± 0.10 | 4.72 ± 0.359 | nd | nd |
| **Mozambique\_dried** | 8.43 ± 0.67 | 0.38± 0.09 | 1.80±0.16 | nd | 4.97 ± 0.90 | 5.52 ± 0.13 | 1.75 ± 0.16 | 6.05 ± 0.54 | 1.63 ± 0.15 | 5.99 ± 0.54 |
| **Pakistan\_dried** | 4.94 ± 0.42 | 1.05 ± 0.08 | 1.04±0.09 | 0.09 ± 0.01 | 3.90 ± 0.53 | 8.77 ± 0,60 | 2.09 ± 0.09 | 8.14 ± 0.79 | nd | nd |
| **Just Moringa** | 3.67 ± 0.27 | 0.63 ± 0.05 | 1.02±0.09 | 4.00 ± 0.46 | 2.92 ± 0.64 | 6.49 ± 0.29 | 2.55 ± 0.11 | 9.66 ± 0.51 | nd | nd |
| **WISSA** | 3.64 ± 0.27 | 0.82 ± 0.06 | 2.04±0.18 | 1.91 ± 0.22 | 4.06 ± 0.67 | 7.74 ± 0.52 | 1.90 ± 0.12 | 7.28 ± 0.66 | nd | nd |
| **India\_fresh** | 3.62 ± 0.23 | 0.19 ± 0.02 | 1.09±0.10 | 0.04±0.01 | 5.95 ± 0.51 | 9.93 ± 0.88 | 1.52 ± 0.09 | 3.36 ± 0.303 | nd | nd |
| **Paraguay\_fresh** | 3.36 ± 0.16 | 0.18 ± 0.02 | 3.84±0.35 | 4.90 ± 0.44 | 3.09 ± 0.56 | 9.79 ± 0.87 | 1.55 ± 0.09 | 4.89 ± 0.36 | nd | nd |
| **Mozambico\_fresh** | 1.98 ± 0.13 | 0.15 ± 0.01 | 0.91±0.08 | nd | 4.01 ± 0.63 | 5.25 ± 0.20 | 3.92 ± 0.110 | 9.64 ± 1.77 | 1.90 ± 0.05 | 6.09 ± 0.01 |
| **Pakistan\_fresh** | 2.31 ± 0.12 | 0.34 ± 0.01 | 2.79±0.25 | 0.07 ± 0.01 | 4.05 ± 0.49 | 9.51 ± 1.04 | 1.95 ± 0.09 | 7.99 ± 0.359 | nd | nd |