**Supplementary material**

**S1: Extraction yield, total phenolic and total flavonoid content in CCEs/PRFs of wild jujube fruits**

|  |  |  |  |
| --- | --- | --- | --- |
| Solvents | Yield (g/100 g of dry weight) | Total phenolics (GAE g/100 g of dry matter) | Total flavonoids (CE g/100 g of dry matter) |
| CCE | PRF | CCE | PRF | CCE | PRF |
| Absolute Methanol | 37.30±0.77d | 19.00±1.07a | 0.87±0.09b | 1.83±0.27b | 0.04±0.03b | 0.16±0.02b |
| Aqueous Methanol | 51.70±1.71b | 3.40±0.57c | 2.45±0.11a | 4.75±0.87a | 0.17±0.05a  | 0.41±0.03a |
| Absolute Ethanol | 40.68±1.21c | 18.80±0.98a | 0.93±0.07b | 2.80±0.25ab | 0.03±0.01b | 0.22±0.03b |
| Aqueous Ethanol | 55.63±1.76a | 8.80±0.84b | 2.32±0.12a | 3.92±0.78ab | 0.16±0.03a | 0.36±0.04a |
| Absolute Acetone | 6.95±0.81f | --- | 0.01±0.01d | --- | 0.01±0.01c | --- |
| Aqueous Acetone | 9.13±0.90e | --- | 0.07±0.02c | --- | 0.01±0.01c | --- |

Values (mean ± SD) are average of three replicates, analyzed individually. Superscript letters in a same column display significant differences (*p*< 0.05) of means among the exStracting solvents

**S2: Reducing power, DPPH radical scavenging activity, Inhibition of linoleic acid peroxidation of CCEs/PRFs recovered from wild jujube fruits**

|  |  |  |  |
| --- | --- | --- | --- |
| Solvents  | Reducing Power (λ=700nm) | IC50 value (mg/mL) | Inhibition of linoleic acid peroxidation (%) |
| 5mg | 10 mg | 15 mg | 20mg |  |  |
| Absolute Methanol | CCE | 0.19±0.02 | 0.49±0.03 | 0.67±0.02 | 0.84±0.06 | 0.71±0.12b | 63.35±2.39b |
| PRF | 0.33±0.07 | 0.39±0.04 | 0.46±0.02 | 0.72±0.05 | 0.37±0.03a | 76.24±1.94b |
| Aqueous Methanol  | CCE | 0.14±0.02 | 0.32±0.02 | 0.46±0.05 | 0.73±0.02 | 0.13±0.08e  | 74.91±3.56a  |
| PRF | 0.47±0.04 | 0.59±0.03 | 0.72±0.04 | 0.76±0.09 | 0.09±0.01d | 81.91±2.60a |
| Absolute Ethanol | CCE | 0.04±0.01 | 0.17±0.02 | 0.38±0.02 | 0.58±0.07 | 0.52±0.10c | 67.33±2.42ab |
| PRF | 0.32±0.02 | 0.35±0.04 | 0.42±0.02 | 0.51±0.02 | 0.21±0.03b | 75.67±2.18b |
| Aqueous Ethanol  | CCE | 0.15±0.03 | 0.33±0.04 | 0.42±0.04 | 0.52±0.04 | 0.34±0.09d | 68.12±2.68ab  |
| PRF | 0.44±0.05 | 0.60±0.07 | 0.61±0.07 | 0.75±0.06 | 0.15±0.02c | 74.02±2.27b |
| Absolute Acetone | CCE | 0.01±0.05 | 0.13±0.02 | 0.25±0.02 | 0.34±0.02 | 1.73±0.17a | 34.46±2.35c |
| PRF | - | - | - | - | - | - |
| Aqueous Acetone  | CCE | 0.16±0.02 | 0.36±0.01 | 0.50±0.04 | 0.61±0.04 | 0.67±0.05b | 38.45±3.31c  |
| PRF | - | - | - | - | - | - |

Values (mean ± SD) are average of three replicates, analyzed individually. Superscript letters in a same column display significant differences (*p*< 0.05) of means among the extracting solvents.