Table S1. Proposed factors and levels for polyphenol extraction by ultrasound-assisted extraction (UAE) using MSR by Draper-Lin

| Factors | Units | Minimum value | Maximum value |
|-------------------------------|-------|---------------|---------------|
| Proportion of PDCF/solvent | % | 0.05 | 0.10 |
| Ethanol | % | 60.00 | 80.00 |
| Time | min | 10.00 | 30.00 |
| Emulsifier | % | 0.04 | 0.15 |

Table S2. Proposed factors and levels for polyphenol extraction by microwave-assisted extraction (MAE) using MSR by Draper-Lin

| Factors | Units | Minimum value | Maximum value |
|-------------------------------|-------|---------------|---------------|
| Proportion of PDCF/solvent | % | 0.03 | 0.05 |
| Ethanol | % | 50.00 | 70.00 |
| Temperature | °C | 40.00 | 80.00 |
| Time | min | 2.00 | 5.00 |