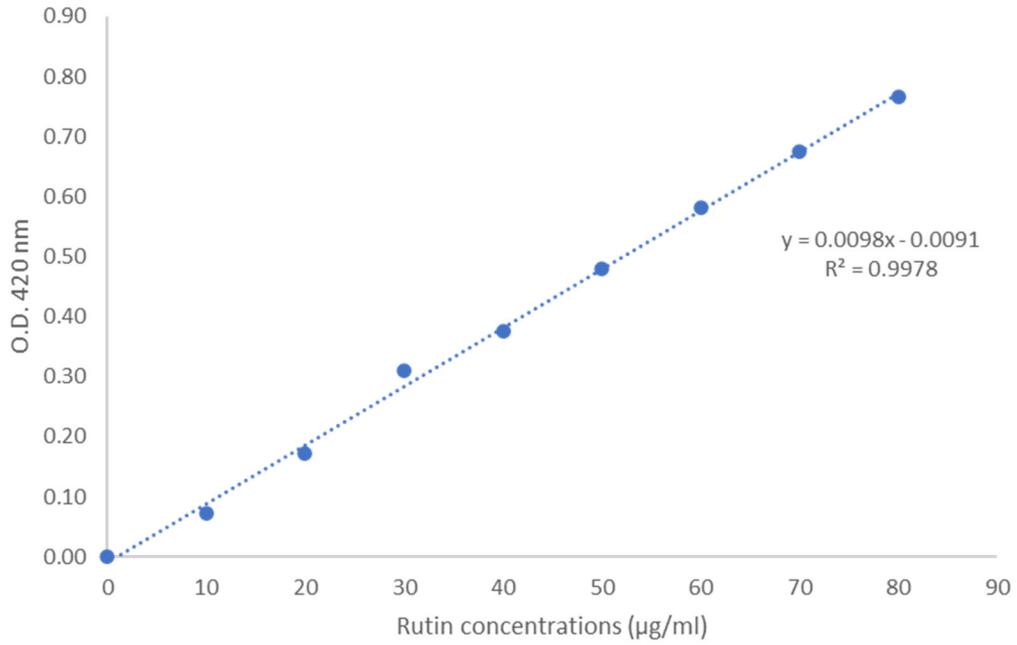
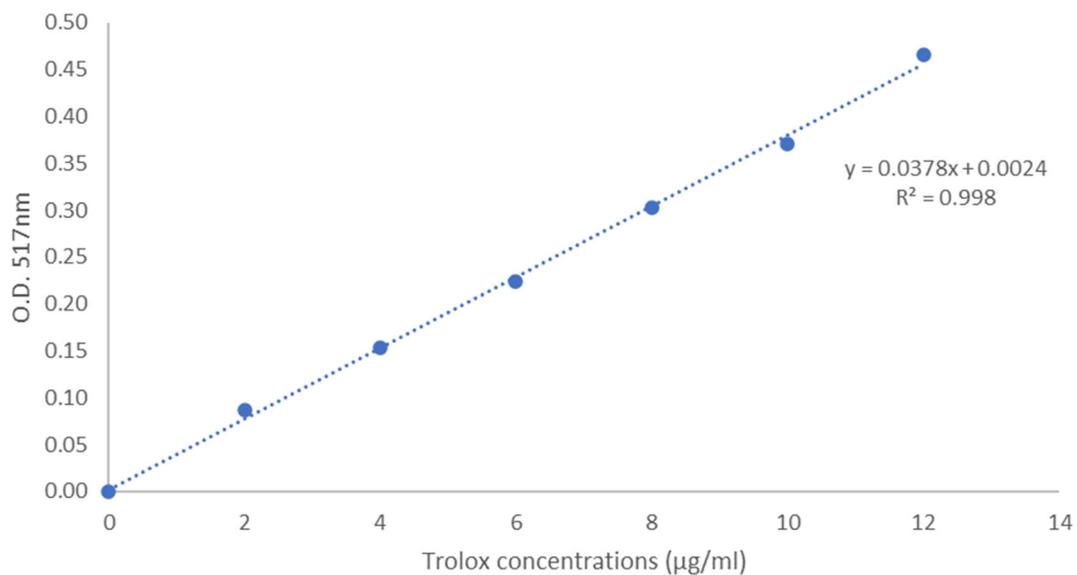


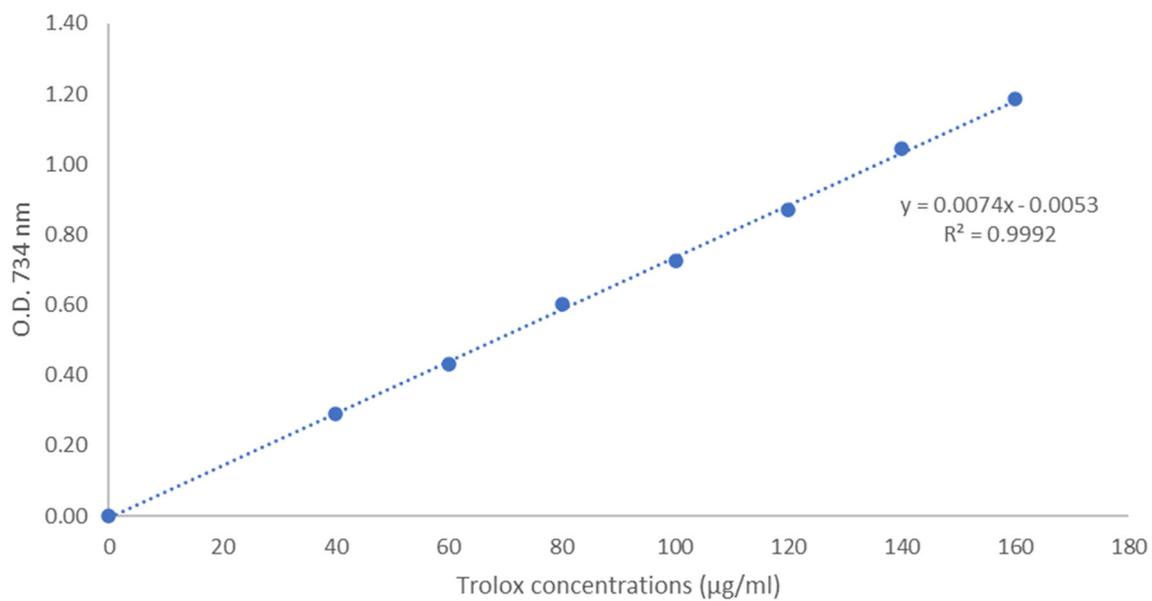
**Figure S1** Standard curve of total phenolic content (TPC) with gallic acid agent used as a standard.



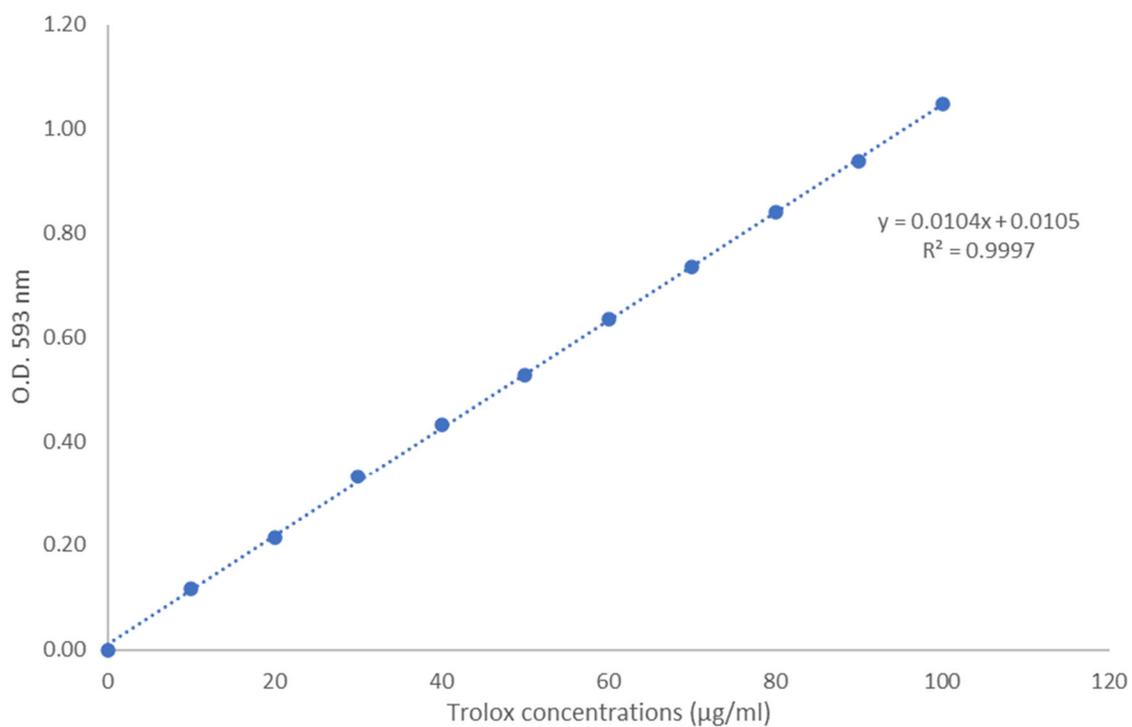
**Figure S2** Standard curve of total flavonoid content (TFC) with rutin agent used as a standard.



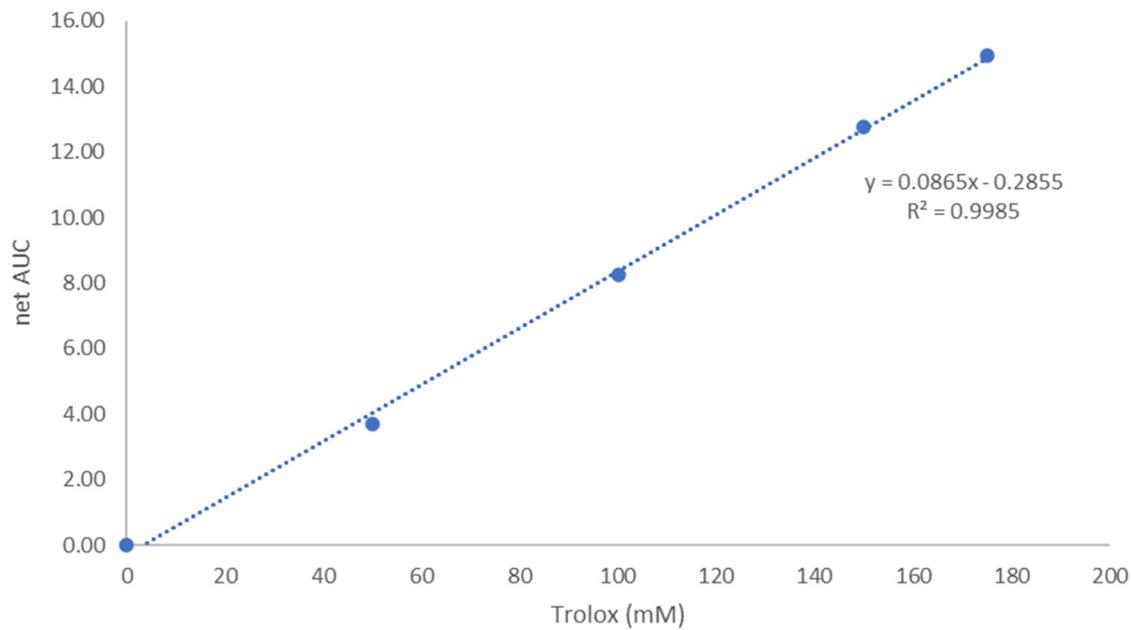
**Figure S3** Standard curve of DPPH assay with Trolox agent used as a standard.



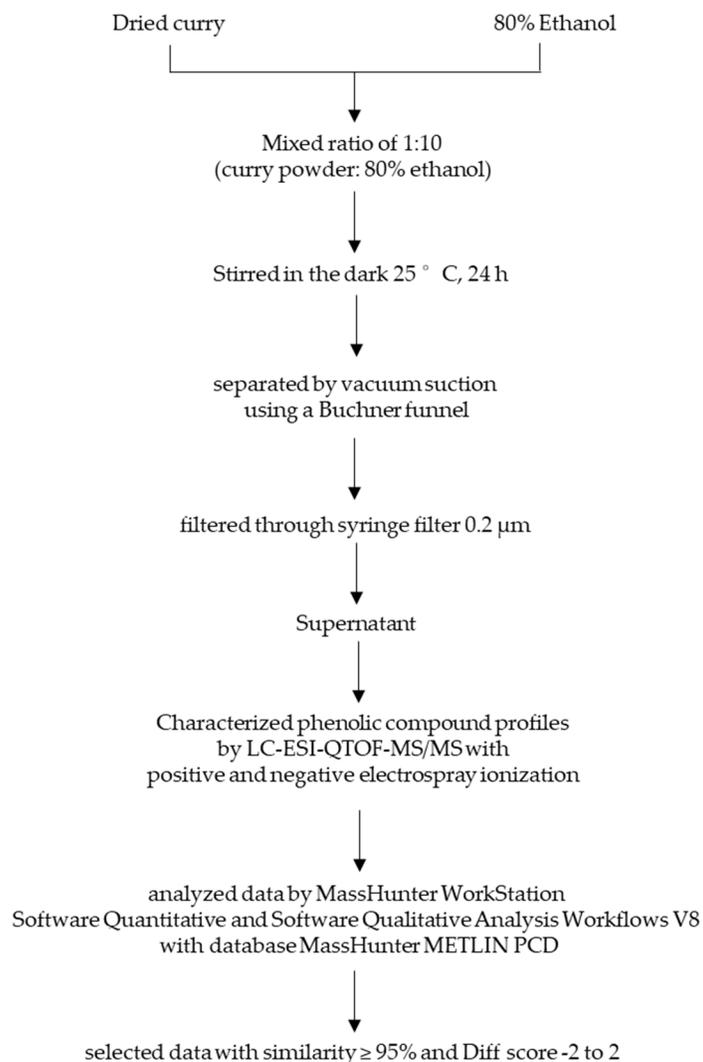
**Figure S4** Standard curve of ABTS assay with Trolox agent used as a standard.



**Figure S5** Standard curve of FRAP assay with Trolox agent used as a standard.



**Figure S6** Standard curve of ORAC assay with Trolox agent used as a standard.



**Figure S7** Diagram of characterization of phenolic profiles by LC-ESI-QTOF-MS/MS.

**Table S1** Correlation coefficients of total phenolic content, total flavonoid content, and antioxidant activities.

Variables	TPC	TFC	DPPH	ABTS	FRAP
TFC	0.974**				
DPPH	0.996**	0.971**			
ABTS	0.994**	0.967**	0.994**		
FRAP	0.994**	0.966**	0.993**	0.995**	
ORAC	0.974**	0.898*	0.981**	0.981**	0.985**

\*\* Correlation is significant at  $p < 0.01$  and \* Correlation is significant at  $p < 0.05$