

## Supplementary material:

**Table1:** Comparative binding Energy Scores of the five antioxidants

Antioxidants	MolDock Score (Energy Score)	H-bond interaction energy	Common interacting residues
Dipiperoyl ester of curcumin	-200.299	-3.393	Pro 482, Glu 512, Pro 513, Tyr 522, Thr 651, Thr 655
Lycopene	-182.405	-2.5	Pro 482, Leu485, Pro513, Tyr522, Thr651, Thr655
Curcumin	-151.557	-3.8	Leu485, Glu486, Thr651, Thr655
Tocopherol	-128.9	0.27	Leu485, Glu486, Glu512, Pro 513, Tyr 522
Ascorbic acid	-94.5	-19.4	Leu485, Glu486, Glu512