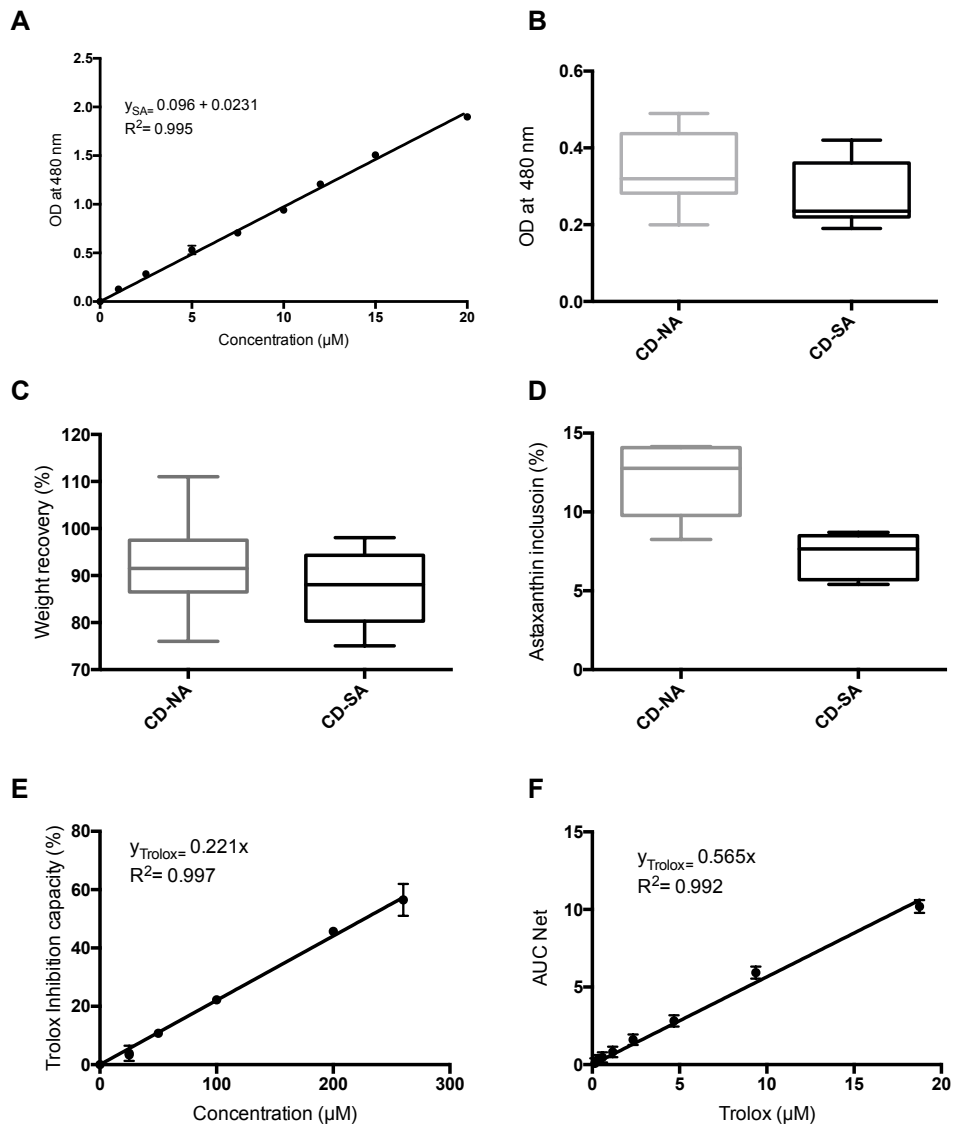


1 Supporting information



2

3 **Figure S1.** Characterization and astaxanthin quantification into CD complex. (A) SA calibration curve
4 acquired by UV/VIS spectroscopy showed a good linear correlation between the concentration (X) and the
5 absorbance (Y). (B) Concentrations of astaxanthin CD complex were established by recording the
6 absorbance in DMSO at 480 nm. (C) Weight recovery rate and (D) CD-A inclusion capacity was calculated
7 at the end of the procedure. Trolox calibration curves were plotted to calculate (E) Trolox inhibition capacity
8 using TEAC/ABTS assay and (F) Trolox AUC net against concentration by ORAC assay. Data are means
9 \pm SD of six experiments.