



Supplementary Material

# The Improvement of Nanoemulsion Stability and Antioxidation via Protein-Chlorogenic Acid-Dextran Conjugates as Emulsifiers

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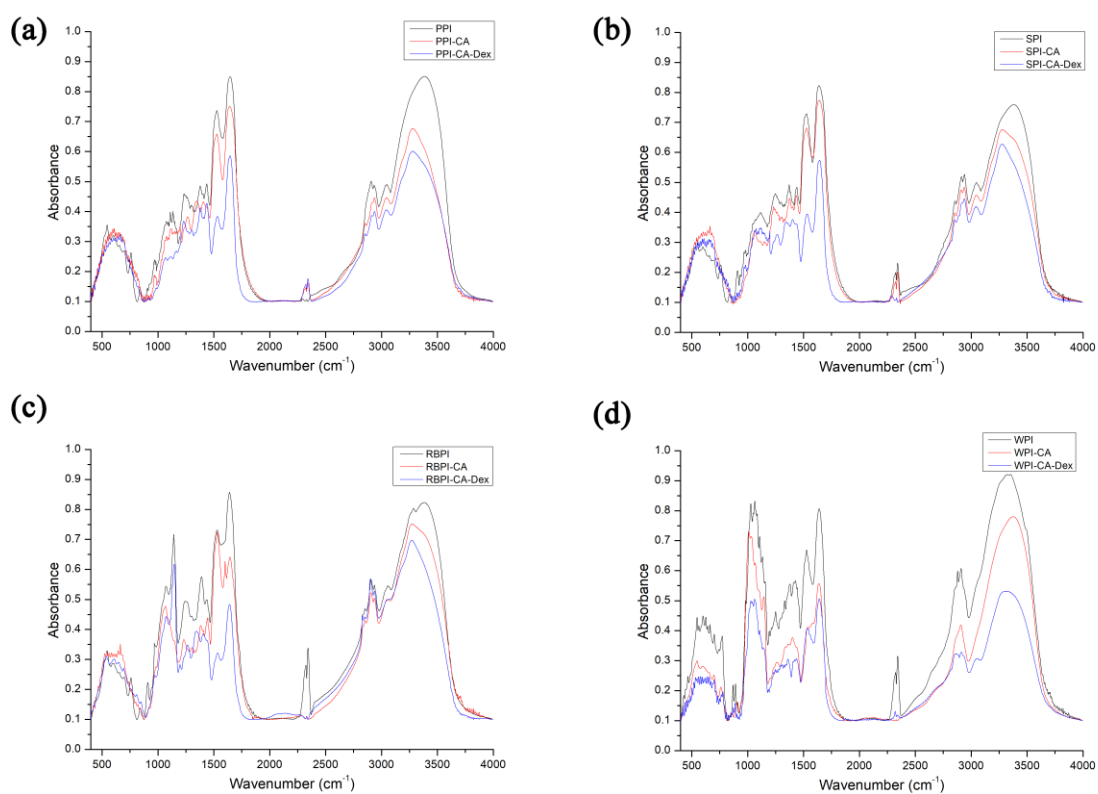
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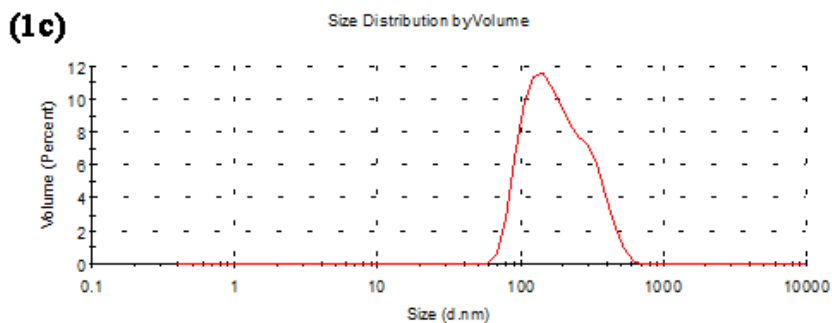
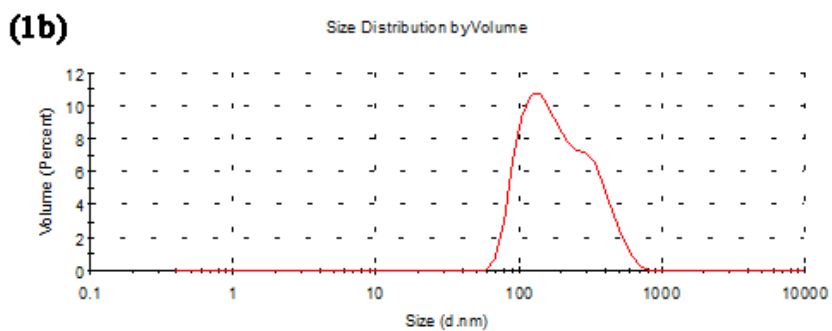
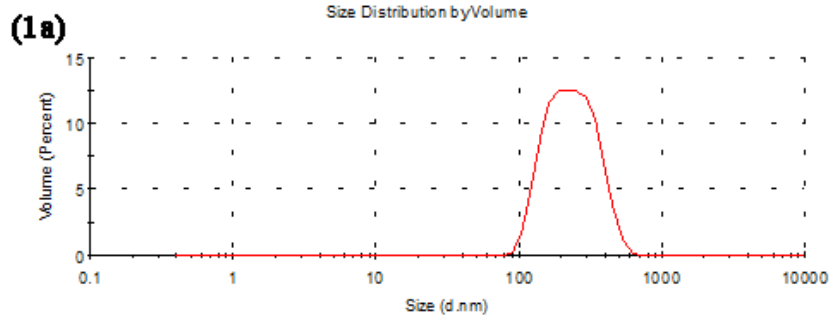
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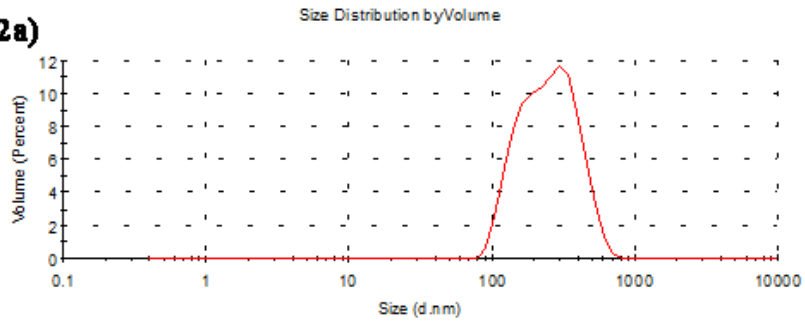
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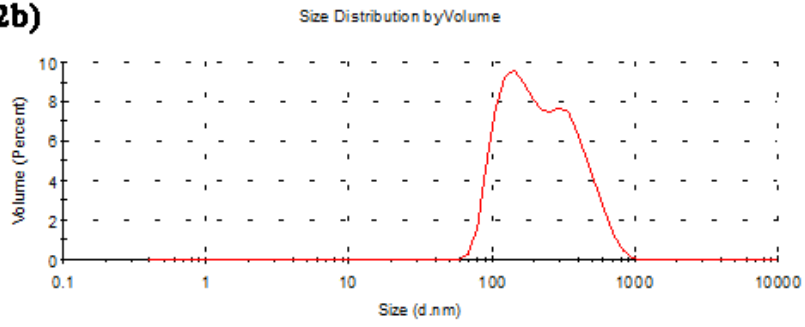
**Figure S1.** FTIR images of NP, PC and PCD. (a) represented FTIR images of PPI, PPI-CA and PPI-CA-Dex, respectively; (b) FTIR images of SPI, SPI-CA and SPI-CA-Dex, respectively; (c) FTIR images of RBPI, RBPI-CA and RBPI-CA-Dex, respectively; (d) represented FTIR images of WPI, WPI-CA and WPI-CA-Dex, respectively.



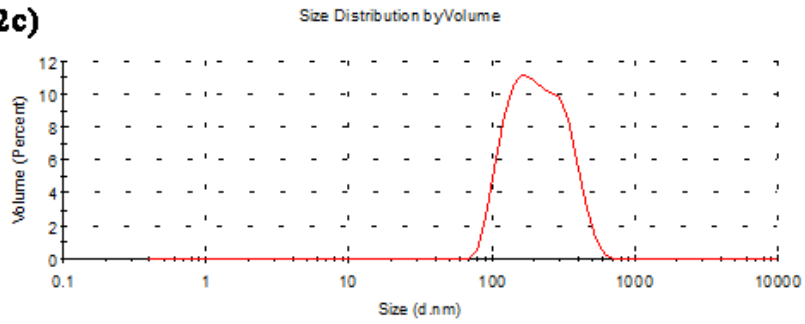
**(2a)**

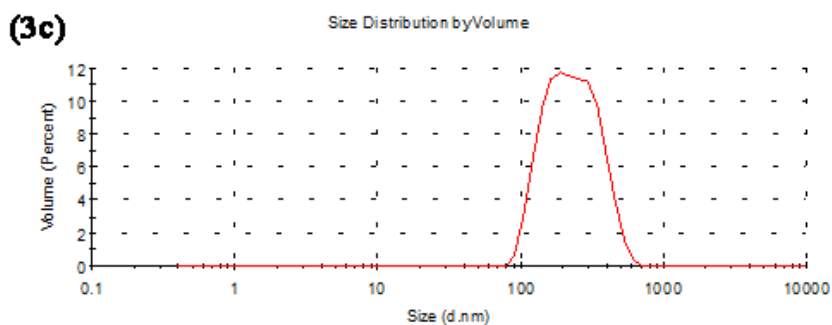
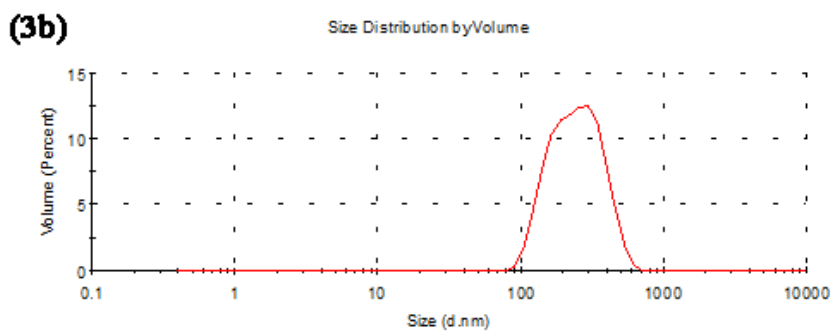
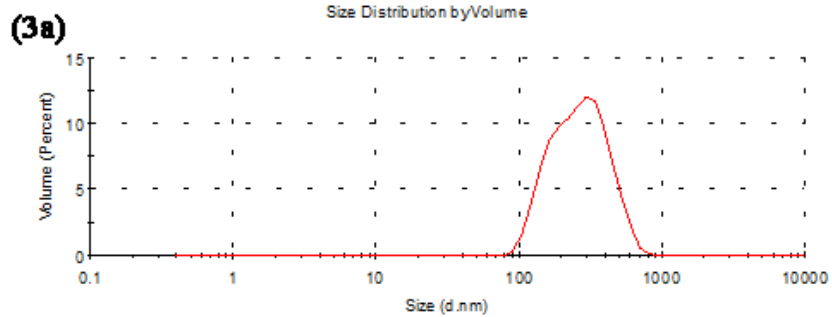


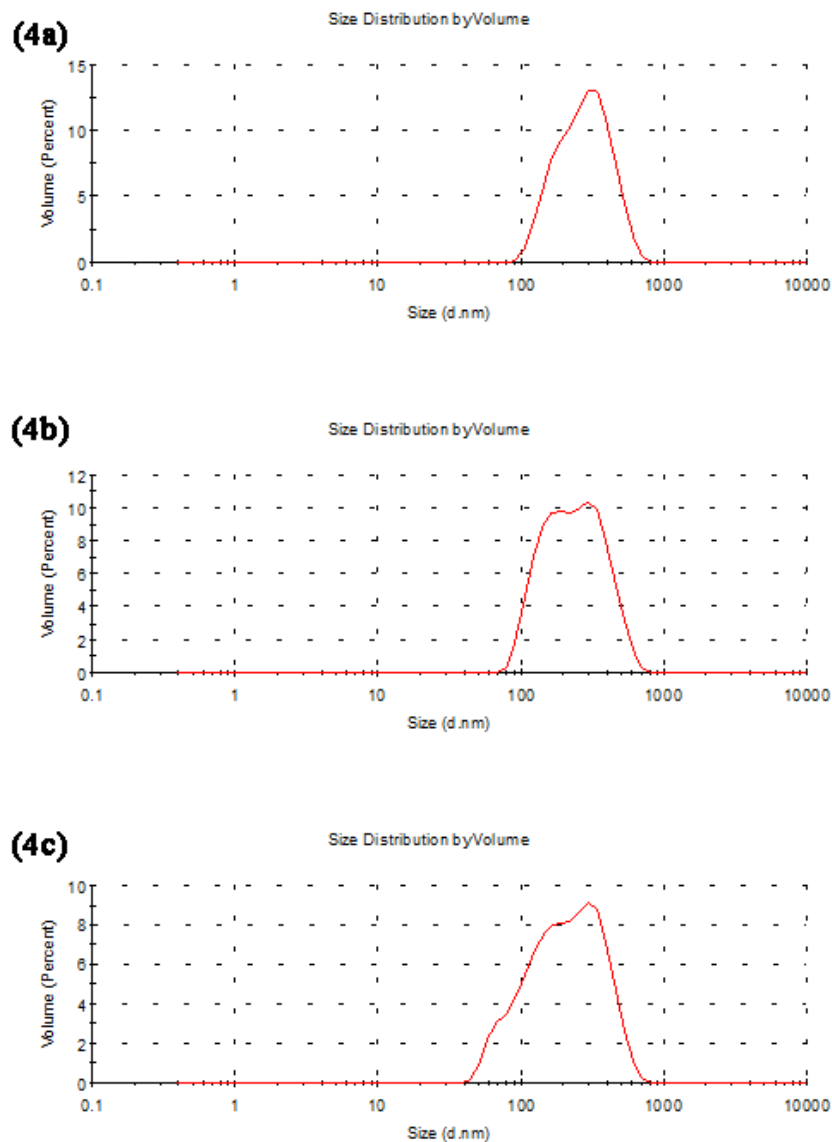
**(2b)**



**(2c)**







**Figure S2.** Size distribution by volume of nanoemulsions stabilized by NP, PC and PCD. **(1a–1c)** represented the size distribution of nanoemulsions stabilized by PPI, PPI-CA and PPI-CA-Dex, respectively; **(2a–2c)** represented the size distribution of nanoemulsions stabilized by SPI, SPI-CA and SPI-CA-Dex, respectively; **(3a–3c)** represented the size distribution of nanoemulsions stabilized by RBPI, RBPI-CA and RBPI-CA-Dex, respectively; **(4a–4c)** represented the size distribution of nanoemulsions stabilized by WPI, WPI-CA and WPI-CA-Dex, respectively.

**Table S1.** The polydispersity index (PDI) of nanoemulsions stabilized by NP, PC and PCD.

<b>Nanoemulsions stabilized by</b>	<b>PDI</b>
PPI	0.090
PPI-CA	0.177
PPI-CA-Dex	0.150
SPI	0.115
SPI-CA	0.169
SPI-CA-Dex	0.142
RBPI	0.168
RBPI-CA	0.099
RBPI-CA-Dex	0.144
WPI	0.160
WPI-CA	0.166
WPI-CA-Dex	0.138