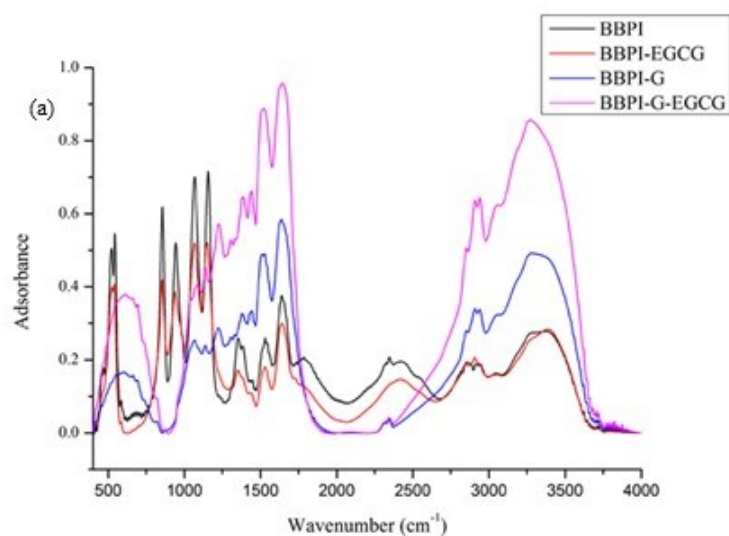
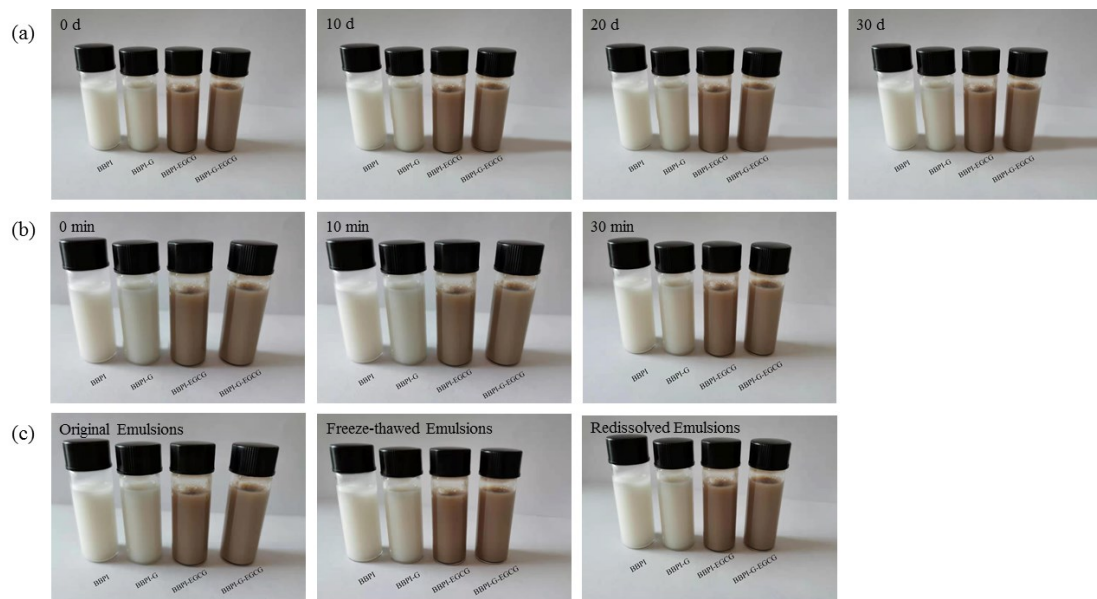


Supplementary Fig. S1 SDS-Page of (a) BBPI-EGCG covalent bounded by BBPI and different concentration of EGCG and (b) BBPI-G-EGCG covalent compounds covalent bounded by BBPI-G and different concentration of EGCG.



Supplementary Fig. S2 (a) is FTIR of BBPI, BBPI-EGCG, BBPI-G-EGCG, BBPI-G-EGCG. (b) is peak fitting image of BBPI. (c) is peak fitting image of BBPI-EGCG. (d) is peak fitting image of BBPI-G. (e) is peak fitting image of BBPI-G-EGCG.



Supplementary Fig. S3 Appearance of emulsions. (a) is emulsions with different storage time (day). (b) is emulsions with different heating time (min). (c) is original emulsions, freeze-thawed emulsions and redissolved emulsions.