Supplementary data

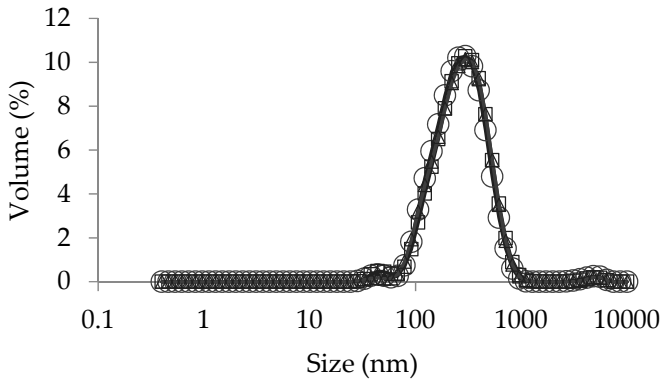


**Figure S1.** Distribution of casein micelle size in mixed micellar casein concentrate (MCC) and glycomacropeptide (GMP) protein solutions: ○; S-MCC-0G, □; S-MCC-10G, and Δ; S-MCC-20G mixed with 0, 10 and 20% GMP as % of total protein, respectively.

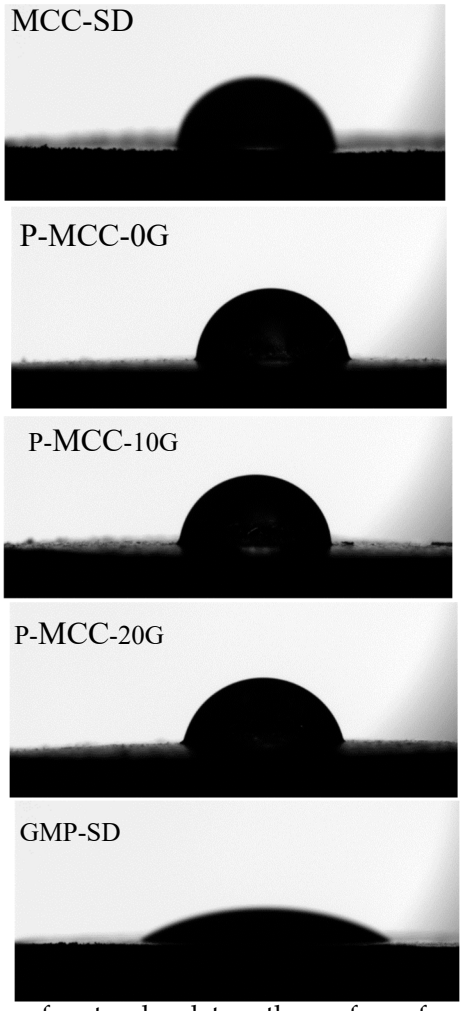


**Figure S2.** Representative images of water droplet on the surface of powder tablets: MCC-SD (spray-dried original powder), P-MCC-0G (freeze-dried MCC powder without GMP addition), P-MCC-10G (Freeze-dried MCC prepared with 10% GMP as a %of total protein), P-MCC-20G (freeze-dried MCC prepared with 20% GMP as a % of total protein), GMP-SD (original spray-dried GMP powder) at 50 S.

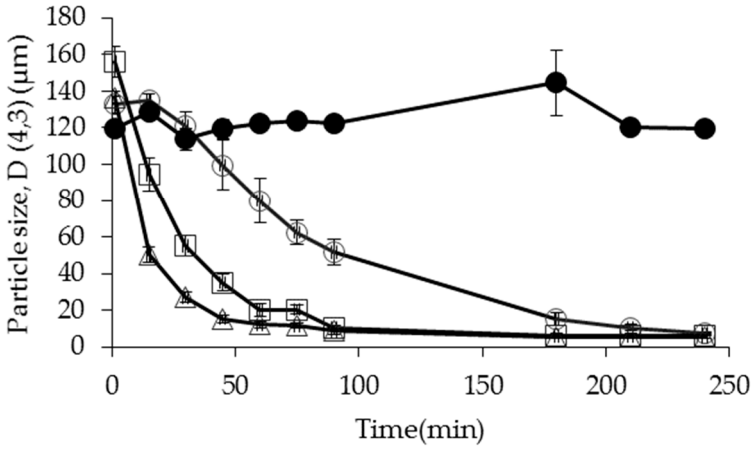


**Figure S3.** Volume-weighted mean particle size (D4,3) of micellar casein powders: ○; P-MCC-0G, □; P-MCC-10G, and Δ; P-MCC-20G obtained from micellar casein concentrate mixed with GMP prior to drying including original spray-dried MCC powder (●; MCC-SD). The mean particle size values are shown as a function of rehydration time from 1 to 240 min and error bars are standard error.

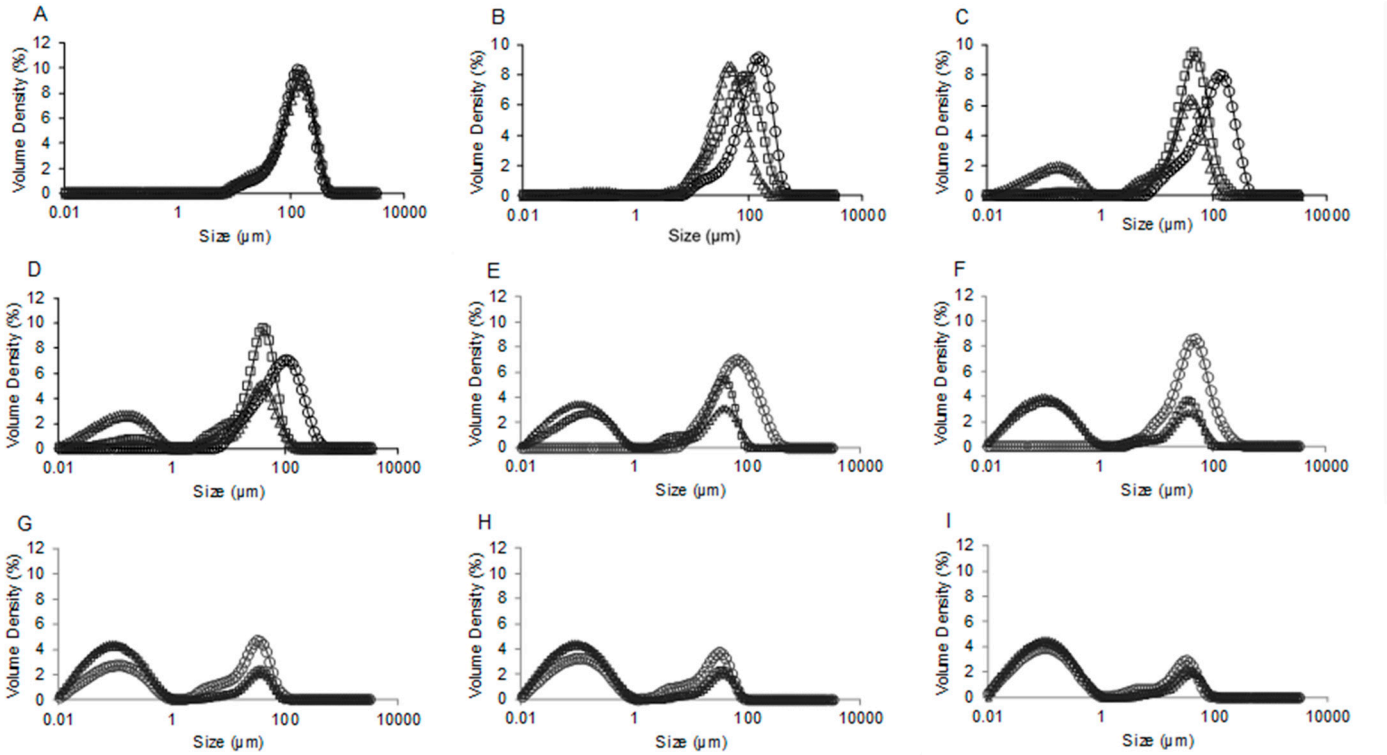


**Figure S4**. Particle size distribution data of micellar casein powders: ○; P-MCC-0G, □; P-MCC-10G, Δ; P-MCC-20G obtained from micellar casein mixed with GMP at 0, 10 and 20% as of total protein prior to drying. The PSD data are shown as a function of rehydration time: A (1 min), B (15 min), C ( 30 min), D (45 min), E (60 min), F (90 min), G (180 min), H (210 min) and I (240 min).