

Table S1. Wave number and area of different peaks present in the FTIR of camel whey-quercetin conjugates.

	Whey		PR		PUS1		PUS2		PRUS1		PRUS2	
	area	cm ⁻¹	area	cm ⁻¹	area	cm ⁻¹	area	cm ⁻¹	area	cm ⁻¹	area	cm ⁻¹
*	2535	3271.72	3932.18	3266.95	5817.07	3268.41	3617.49	3267.12	5886.54	3266.1	5563.77	3266.97
*	1612.53	2899.96	633.71	1658.71	461.18	1658.29	246.18	1660.67	464.83	1660.93	439.77	1661.59
*	743.23	1655.73	296.13	1609.73	454.08	1609.08	242.44	1609.02	449.85	1608.86	396.81	1608.51
*	196.15	1534.23	149.73	1560.05	252.78	1560.74	146.31	1561.63	253.48	1560.96	236.63	1561.51
*	305.02	1422.73	325.35	1520.78	517.26	1519.91	258.61	1521.09	484.37	1520.42	425.92	1520.55
*	512.82	1339.61	258.24	1449.81	381.03	1449.59	241.47	1448.77	413.85	1449.18	379.02	1448.62
*	230.58	1257.69	399.06	1381.1	155.3	1406.95	98.5	1407.28	164.1	1407.06	152.49	1407.23
*	92.6	1260.95	298.94	1318.18	586.1	1380.6	270.5	1380.99	537.12	1380.63	459.27	1380.63
*	295.67	1139.22	468.65	1260.47	521.41	1317.61	295.52	1317.86	542.73	1317.82	484.2	1317.77
*	152.28	1114.96	344.53	1197.87	824.2	1260.05	451.35	1260.47	858.17	1260.06	757.93	1260
*	549.7	1069.49	269.29	1167.79	553.63	1198.02	313.54	1197.37	578.52	1197.69	527.59	1197.61
*	1042.27	1031.23	221.59	1130.73	496.29	1167.41	265.27	1167.34	501.85	1167.38	449.63	1167.41
*			361.97	1091.58	261.82	1131.61	179.14	1130.97	287.58	1131.36	305.41	1131.12
*			323.68	1013.68	506.03	1092.05	241.85	1091.78	457.65	1092.11	444.24	1091.96
						1013.67		1013.81		1013.7		1013.68

PP: Prominent Peak

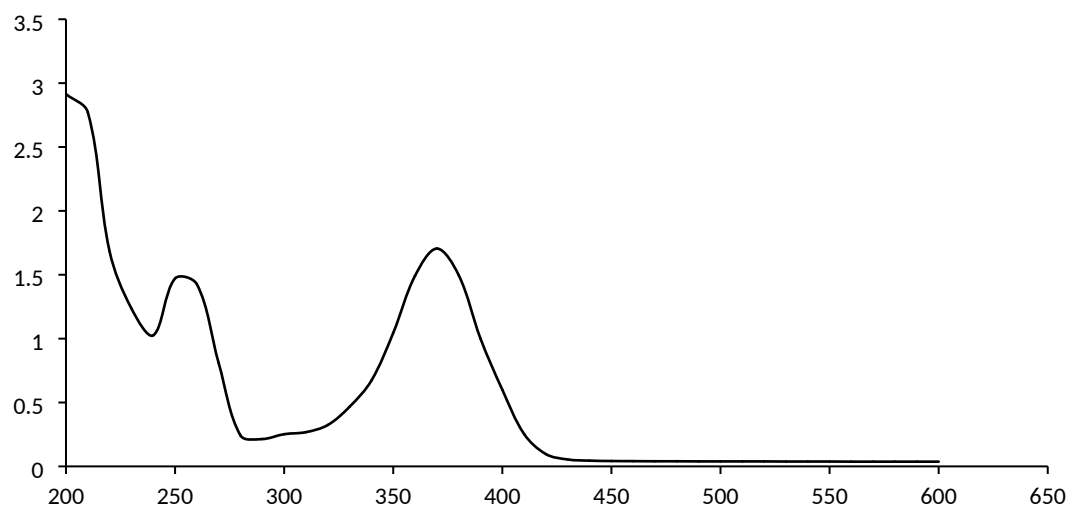


Fig S1

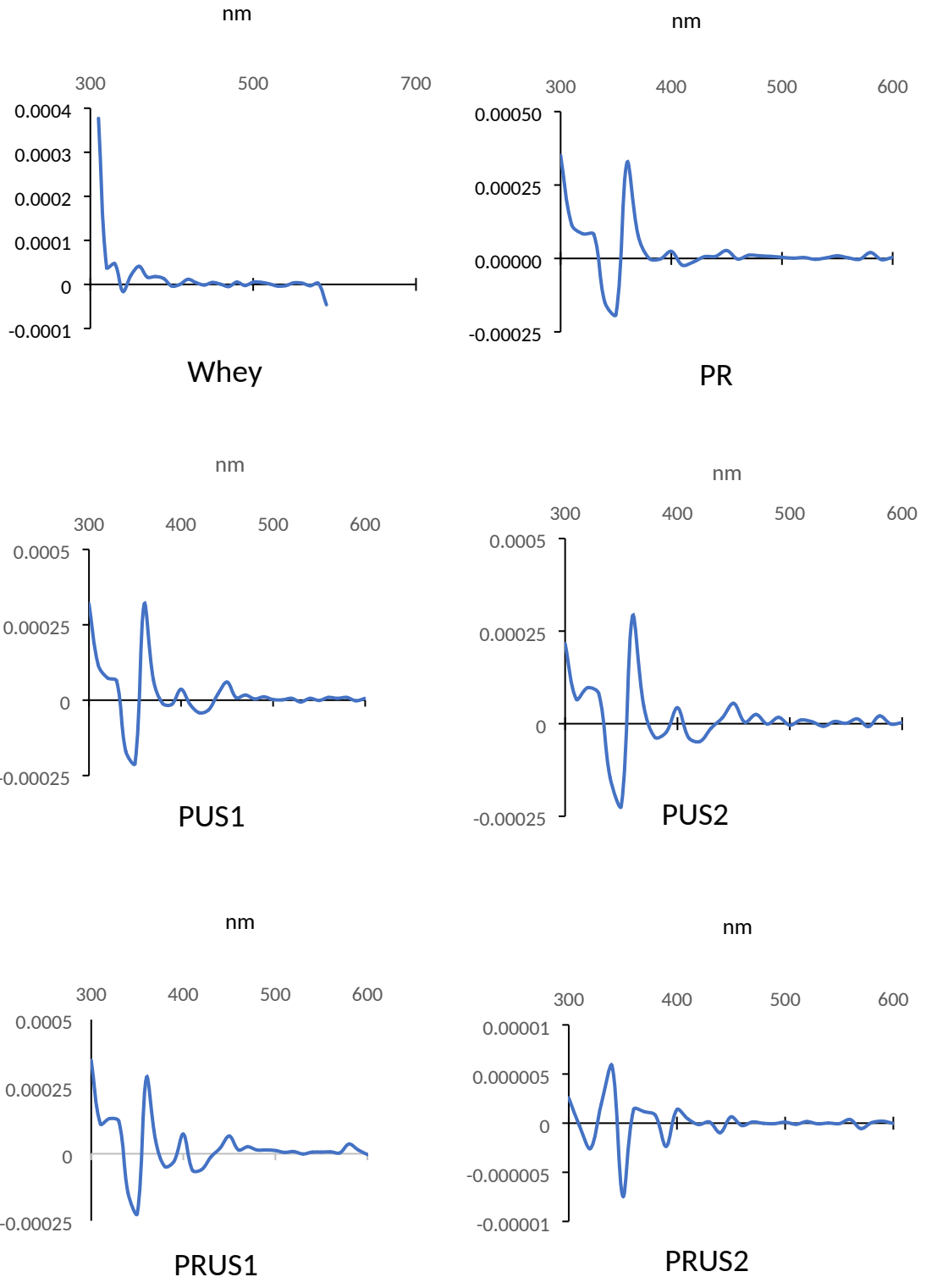


Figure S2.

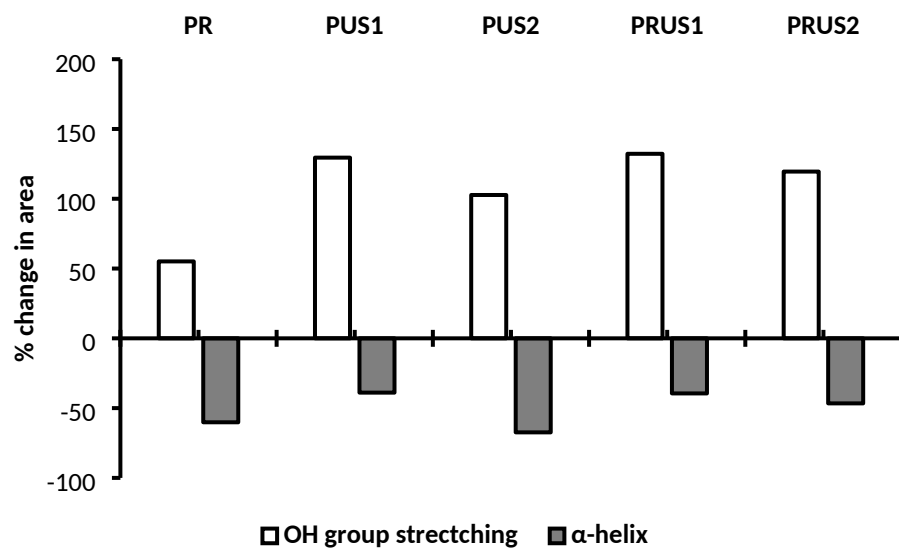


Fig S3

Number Distribution Table-control-w

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
113.0	0.0	0.0	686.1	5.1	86.2	4166.4	0.0	100.0	25300.0	0.0	100.0
D (10%) : 402.5 (nm)			D (50%) : 494 (nm)			D (90%) : 736.2 (nm)					

Number Distribution Table-PR

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
66.8	0.0	0.0	483.5	0.1	99.7	3497.4	0.0	100.0	25300.0	0.0	100.0
D (10%) : 139.1 (nm)			D (50%) : 168.6 (nm)			D (90%) : 236.4 (nm)					

Number Distribution Table-PRUS1

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
64.8	0.0	96.4	454.2	0.0	99.6	3182.5	0.0	100.0	22300.0	0.0	100.0
D (10%) : 30.5 (nm)			D (50%) : 33.8 (nm)			D (90%) : 40.4 (nm)					

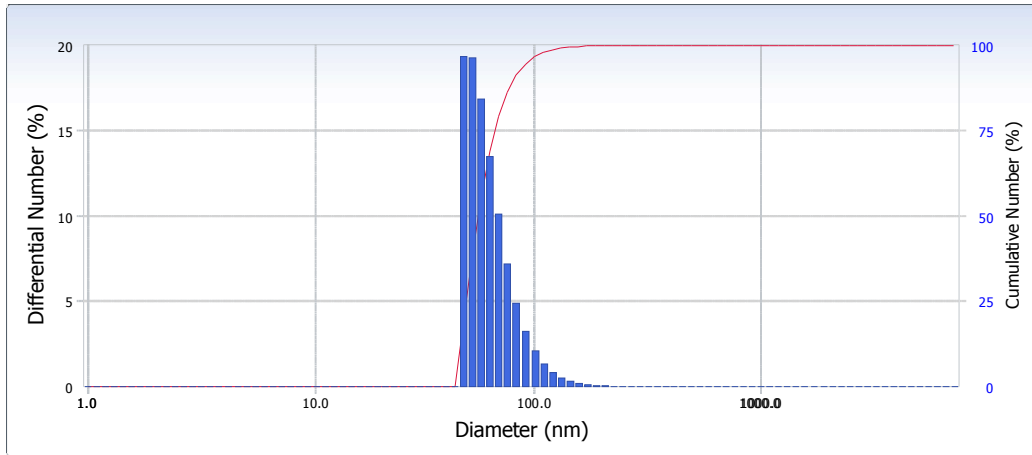
Number Distribution Table-PRUS2

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
58.9	12.9	18.9	373.3	0.0	100.0	2366.2	0.0	100.0	15000.0	0.0	100.0
D (10%) : 55.9 (nm)			D (50%) : 67.3 (nm)			D (90%) : 93.8 (nm)					

User : Common Group : Repetition : 1/1
 Date : 1/17/2021 File Name : waqas sample.PUS1
 Time : 15:33:28 Sample Information : FOOD
 SOP Name : waqas baba-PUS1 Security : No Security

Version 5.10 / 3.00

Number Distribution PUS1



Distribution Results (Contin)

Peak	Diameter (nm)	Std. Dev.
1	65.5	18.2
2	2,286.8	598.7
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
Average	65.5	21.4
Residual :	2.534e-002	(N.G)

Cumulants Results

Diameter (d) : 426.4 (nm)
 Polydispersity Index (P.I.) : 0.271
 Diffusion Const. (D) : 1.154e-008 (cm²/sec)
 Measurement Condition
 Temperature : 25.0 (°C)
 Diluent Name : WATER
 Refractive Index : 1.3328
 Viscosity : 0.8878 (cP)
 Scattering Intensity : 19114 (cps)
 Attenuator 1 : 0.9 (%)

Number Distribution Table-PUS1

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
1.0	0.0	0.0	9.7	0.0	0.0	93.6	3.3	94.6	905.5	0.0	100.0
1.1	0.0	0.0	10.6	0.0	0.0	102.5	2.1	96.7	991.5	0.0	100.0
1.2	0.0	0.0	11.6	0.0	0.0	112.2	1.3	98.0	1085.8	0.0	100.0
1.3	0.0	0.0	12.7	0.0	0.0	122.9	0.8	98.8	1188.9	0.0	100.0
1.4	0.0	0.0	13.9	0.0	0.0	134.6	0.5	99.3	1301.9	0.0	100.0
1.6	0.0	0.0	15.2	0.0	0.0	147.4	0.3	99.6	1425.6	0.0	100.0
1.7	0.0	0.0	16.7	0.0	0.0	161.4	0.2	99.8	1561.1	0.0	100.0
1.9	0.0	0.0	18.3	0.0	0.0	176.7	0.1	99.9	1709.5	0.0	100.0
2.1	0.0	0.0	20.0	0.0	0.0	193.5	0.1	99.9	1871.9	0.0	100.0
2.3	0.0	0.0	21.9	0.0	0.0	211.9	0.0	100.0	2049.8	0.0	100.0
2.5	0.0	0.0	24.0	0.0	0.0	232.0	0.0	100.0	2244.6	0.0	100.0
2.7	0.0	0.0	26.3	0.0	0.0	254.1	0.0	100.0	2457.9	0.0	100.0
3.0	0.0	0.0	28.8	0.0	0.0	278.2	0.0	100.0	2691.5	0.0	100.0
3.3	0.0	0.0	31.5	0.0	0.0	304.6	0.0	100.0	2947.2	0.0	100.0
3.6	0.0	0.0	34.5	0.0	0.0	333.6	0.0	100.0	3227.3	0.0	100.0
3.9	0.0	0.0	37.8	0.0	0.0	365.3	0.0	100.0	3534.0	0.0	100.0
4.3	0.0	0.0	41.3	0.0	0.0	400.0	0.0	100.0	3869.8	0.0	100.0
4.7	0.0	0.0	45.3	0.0	0.0	438.0	0.0	100.0	4237.5	0.0	100.0
5.1	0.0	0.0	49.6	19.4	19.4	479.6	0.0	100.0	4640.2	0.0	100.0
5.6	0.0	0.0	54.3	19.3	38.7	525.2	0.0	100.0	5081.2	0.0	100.0
6.1	0.0	0.0	59.4	16.9	55.6	575.1	0.0	100.0	5564.0	0.0	100.0
6.7	0.0	0.0	65.1	13.5	69.1	629.8	0.0	100.0	6092.8	0.0	100.0
7.4	0.0	0.0	71.3	10.1	79.2	689.6	0.0	100.0	6671.7	0.0	100.0
8.1	0.0	0.0	78.1	7.2	86.4	755.2	0.0	100.0	7305.8	0.0	100.0

Number Distribution Table-PUS1

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
8.8	0.0	0.0	85.5	4.9	91.3	826.9	0.0	100.0	8000.0	0.0	100.0
D (10%) : 47.4 (nm)			D (50%) : 57.7 (nm)			D (90%) : 83.4 (nm)					

Number Distribution Table-PUS2

d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)	d (nm)	f(%)	f(cum.%)
59.3	0.0	0.0	379.4	0.1	99.8	2424.9	0.0	100.0	15500.0	0.0	100.0
D (10%) : 88.4 (nm)			D (50%) : 106.5 (nm)			D (90%) : 154.3 (nm)					