

1. Automatically reported spectral parameters of dynamic light scattering, experiment 03.03.2018 (selected Size in limits of 4-1765 nm)

Sample No.	Preparation	% Intensity	Size, nm	St Dev (Size), nm
53	euf	37.7	424.7	30.11
6	anlg	32	528.6	86.15
11	euf	48.1	691.6	71.21
1	anlg	11.5	358.1	27.06
49	hc	57.7	894.8	50.56
30	euf	5.3	239.6	15.21
35	hc	21.4	324.5	25.93
51	hc			
22	lyd	9.2	1732	230.4
60	anlg	7.7	125.7	5.138
45	hc	22.8	427.1	29.76
41	lyd	46.5	91.08	3.317
46	lyd			
59	euf	38.3	1033	119.2
34	hc			
2	lyd	79.1	393.5	14.04
5	hc			
24	anlg	33.1	358.3	22.7
15	euf	36.1	274.8	11.3
8	anlg			
4	hc	36.7	1143	144.2
39	euf			
47	anlg	26.2	482.7	59.49
29	anlg			
57	hc	64.1	978.9	85.22
10	lyd	100	131.8	4.73
25	anlg	34.3	267.4	20.96
44	euf	15.2	264	13.91
27	anlg	9.9	324.8	24.34
33	lyd	20.6	229	11.45
31	anlg	23.8	507.5	55.09
48	hc			
19	lyd			
14	hc			
37	lyd	13.3	175.2	16.76
54	euf			
17	lyd			
36	euf	10.4	171.2	4.7
23	euf	5.6	293.2	11.69
28	anlg	100	169.1	0
38	euf			
20	lyd	21.5	133.8	3.984
40	euf	47	344.2	16.91

42	lyd			
55	lyd			
7	lyd	5.5	125	13.36
21	hc	18.3	202.9	7.392
13	euf	24.7	283	20.43
16	anlg	42.4	481.3	28.14
32	hc	36.4	480	36.4
26	lyd	18.4	4.676	0.565
9	hc	57.4	487.8	112.7
50	hc	53.3	312.7	20.65
18	lyd			
58	anlg	39.3	909.1	73.36
12	anlg	100	316.5	11.24
3	anlg			
52	hc	100	116.6	2.55
43	euf	25.5	398.8	27.3
56	euf	60.6	908.7	68.58
K	K	100	9.174	0
K	K	100	152.7	6.7
K	K	100	290.1	11.08
K	K	100	121.5	4.42
K	K	100	203.3	7.386
K	K	100	238.7	7.699
K	K	100	186.9	6.843
K	K	56.6	636.8	36.25
K	K	83.7	70.55	0
K	K			
K	K	54.8	1765	255.4
K	K			
K	K	100	222.1	7.039
K	K	39.4	419.7	25.95
K	K			

Note:

Yellow marks – samples excluded due to an absence of refraction peaks or Size lying out of accepted limits 4-1765 nm.

2. Results of statistical analysis of distinctions between preparations by means of Mann-Whitney U-test

“lyd” *re* “hc”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	72	117.5	27.5	-1.42887	0.153043	-1.42950	0.152863	9	10	0.156401
Size, nm	65	125	20	-2.04124	0.041228	-2.04124	0.041228	9	10	0.043474
St Dev (Size), nm	66	124	21	-1.95959	0.050044	-1.95959	0.050044	9	10	0.053476

“anlg” re “hc”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	122	131	44	-1.05501	0.291422	-1.05620	0.290877	12	10	0.313618
Size, nm	131	122	53	-0.46157	0.644393	-0.46157	0.644393	12	10	0.674397
St Dev (Size), nm	127	126	49	-0.72532	0.468257	-0.72532	0.468257	12	10	0.496507

“euf” re “hc”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	115	138	37	-1.51658	0.129375	-1.51658	0.129375	12	10	0.140237
Size, nm	125	128	47	-0.85719	0.391338	-0.85719	0.391338	12	10	0.417582
St Dev (Size), nm	123	130	45	-0.98907	0.322629	-0.98907	0.322629	12	10	0.346279

“euf” re “K”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	83	217	5	-3.86825	0.000110	-3.94088	0.000081	12	12	0.000014
Size, nm	184	116	38	1.96299	0.049648	1.96299	0.049648	12	12	0.051865
St Dev (Size), nm	188	112	34	2.19393	0.028241	2.19441	0.028207	12	12	0.028421

“anlg” re “K”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	95	205	17	-3.17543	0.001496	-3.29585	0.000981	12	12	0.000858
Size, nm	180	120	42	1.73205	0.083265	1.73205	0.083265	12	12	0.088734
St Dev (Size), nm	182	118	40	1.84752	0.064673	1.84913	0.064440	12	12	0.068361

“hc” re “K”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	73	180	18	-2.76940	0.005616	-2.86828	0.004127	10	12	0.004429
Size, nm	143	110	32	1.84627	0.064855	1.84627	0.064855	10	12	0.069151
St Dev (Size), nm	147	106	28	2.11002	0.034858	2.11061	0.034806	10	12	0.035828

“lyd” re “K”

	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
% Intensity	57	174	12	-2.98481	0.002838	-3.10837	0.001881	9	12	0.001803
Size, nm	87	144	42	-0.85280	0.393769	-0.85280	0.393769	9	12	0.422107
St Dev (Size), nm	101	130	52	0.14213	0.886974	0.14218	0.886938	9	12	0.917007

Red text – $p < p_B = 0.0125$