Fig. 1

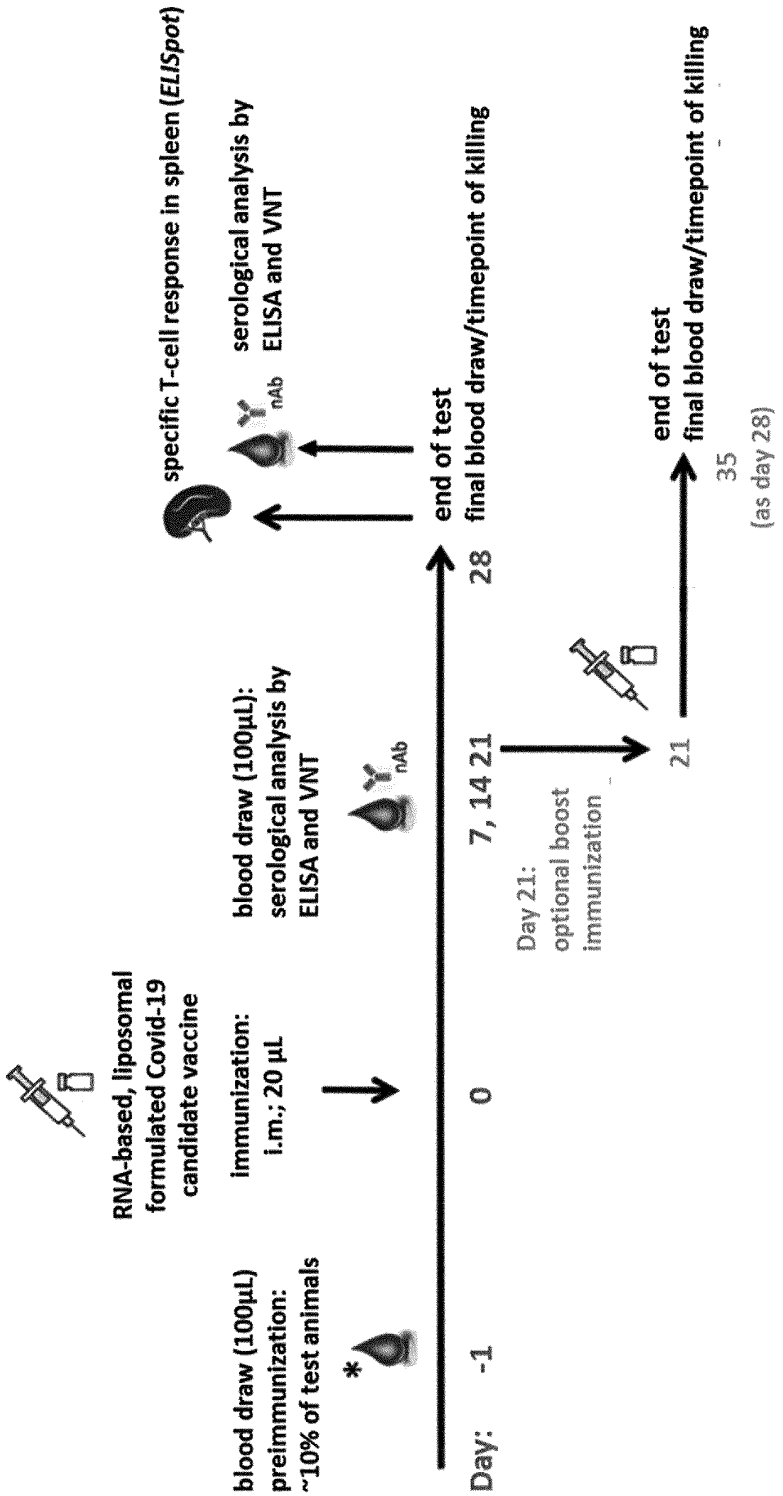

RNA-based, liposomal formulated Covid-19 candidate vaccine
immunization: i.m.; 20 µL
blood draw (100µL): preimmunization: ~10% of test animals
blood draw (100µL): serological analysis by ELISA and VNT
nAb
specific T-cell response in spleen (ELISpot)
serological analysis by ELISA and VNT
nAb
end of test
final blood draw/timepoint of killing
Day: -1 0 7, 14 21 28
Day 21: optional boost immunization
21
end of test
final blood draw/timepoint of killing
35
(as day 28)

Fig. 2

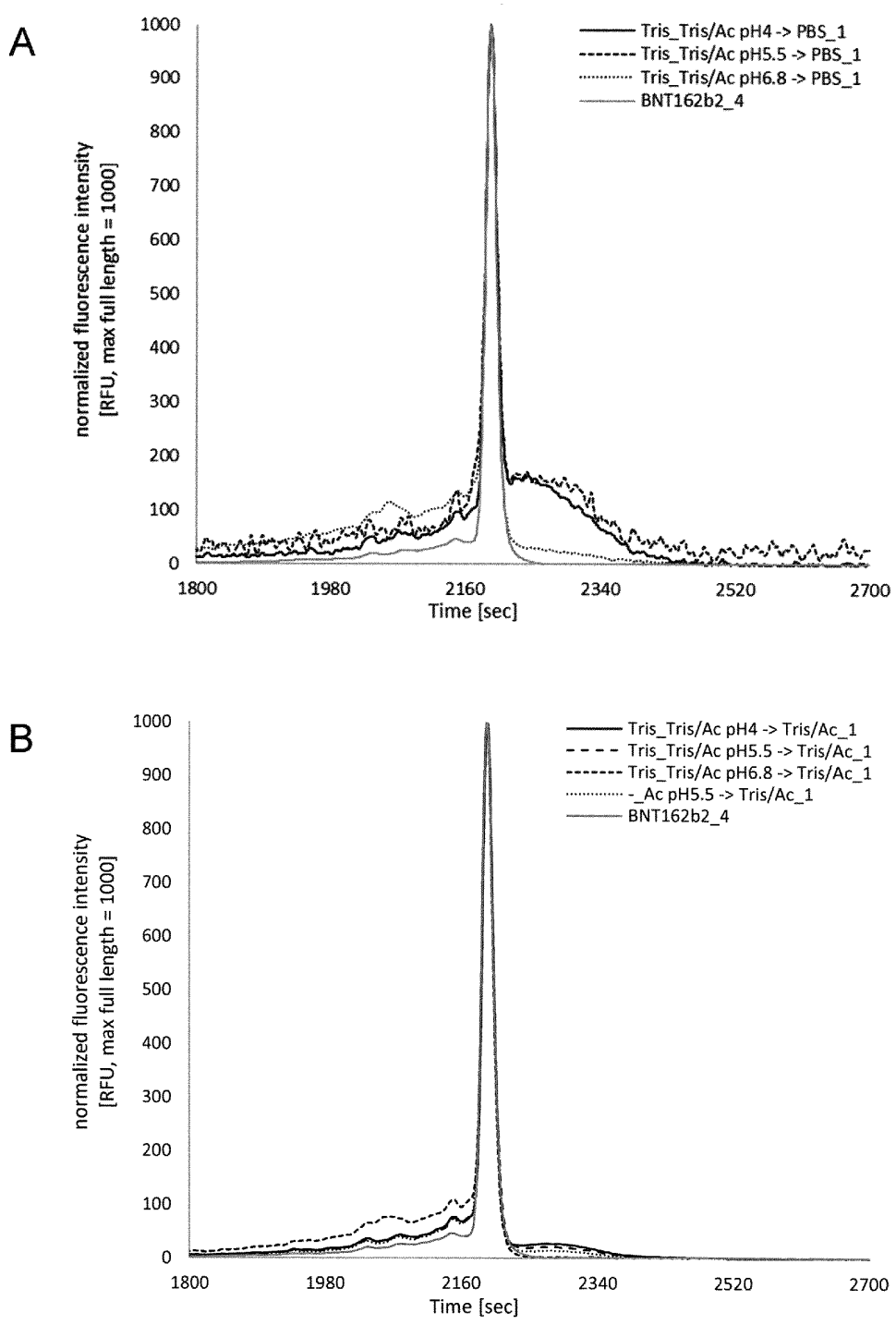

A
normalized fluorescence intensity [RFU, max full length = 1000]
Time [sec]
Tris_Tris/Ac pH4 -> PBS_1
Tris_Tris/Ac pH5.5 -> PBS_1
Tris_Tris/Ac pH6.8 -> PBS_1
BNT162b2_4
B
normalized fluorescence intensity [RFU, max full length = 1000]
Time [sec]
Tris_Tris/Ac pH4 -> Tris/Ac_1
Tris_Tris/Ac pH5.5 -> Tris/Ac_1
Tris_Tris/Ac pH6.8 -> Tris/Ac_1
-_Ac pH5.5 -> Tris/Ac_1
BNT162b2_4

Fig. 3

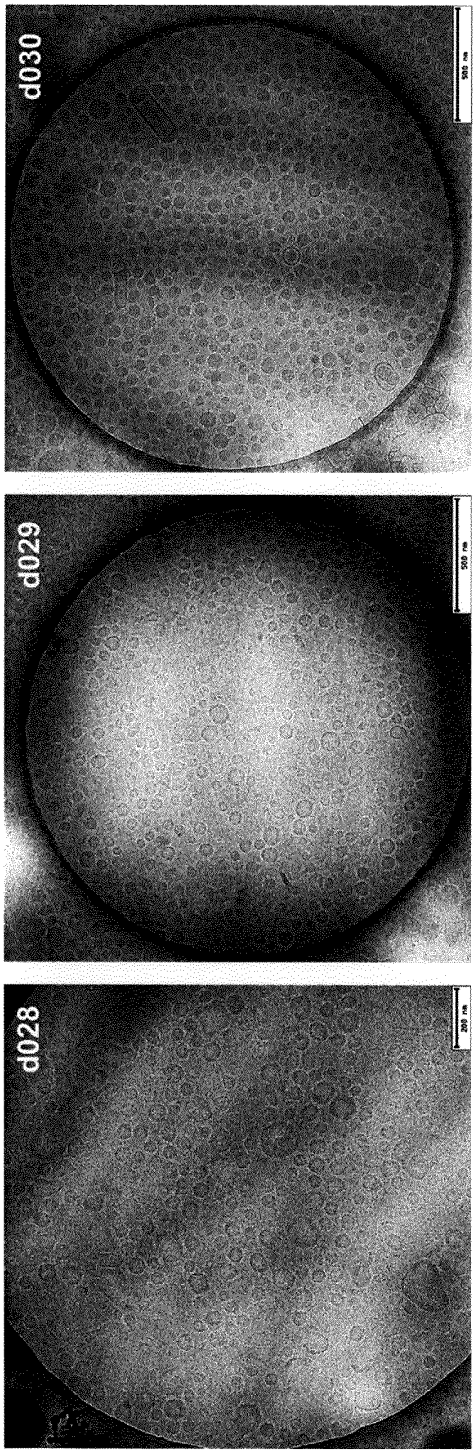


Fig. 4

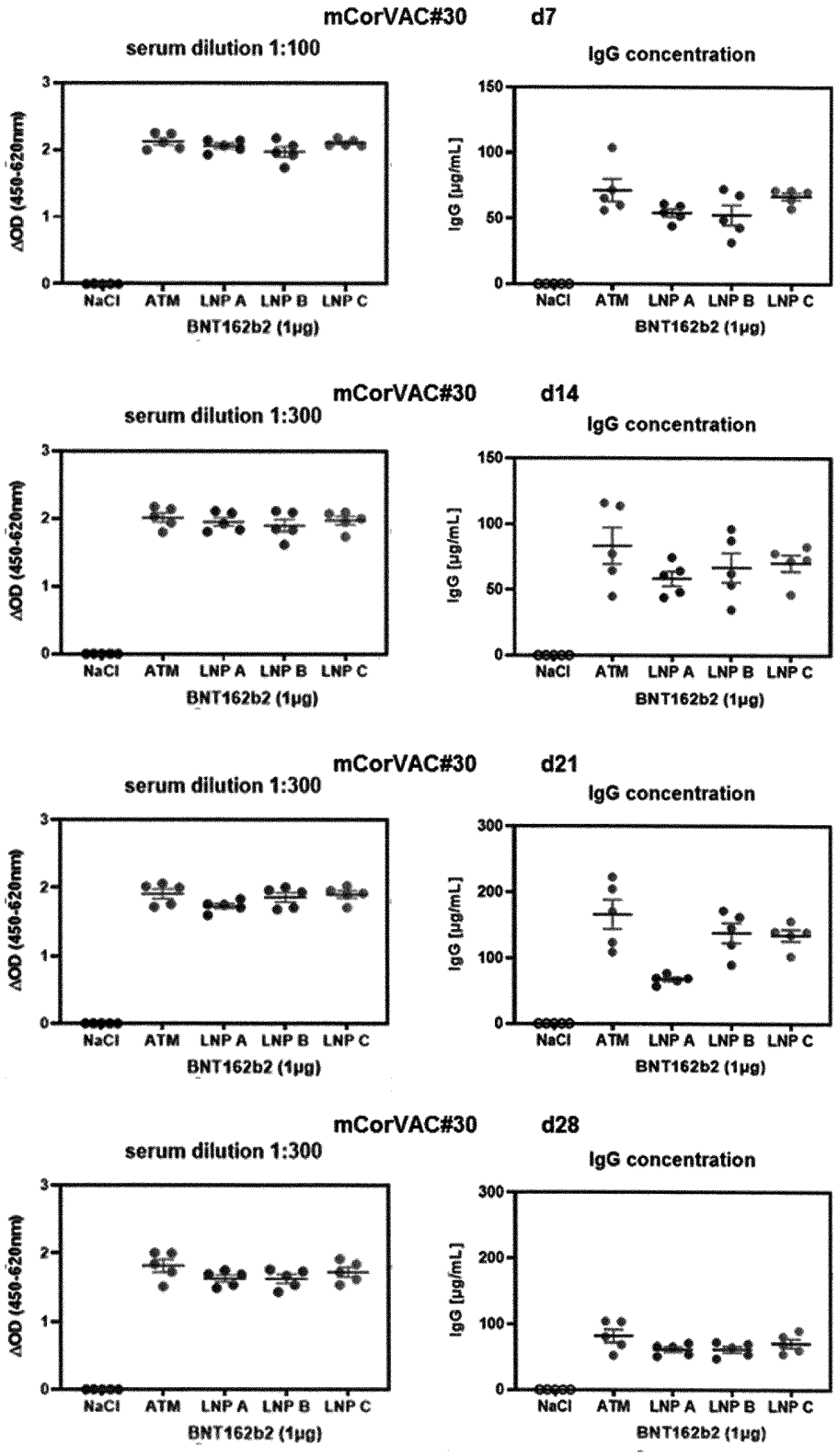

mCorVAC#30 d7
serum dilution 1:100
ΔOD (450-620nm)
NaCl ATM LNP A LNP B LNP C
BNT162b2 (1µg)
IgG concentration
IgG [µg/mL]
mCorVAC#30 d14
serum dilution 1:300
IgG concentration
mCorVAC#30 d21
serum dilution 1:300
IgG concentration
mCorVAC#30 d28
serum dilution 1:300
IgG concentration

Fig. 5

A

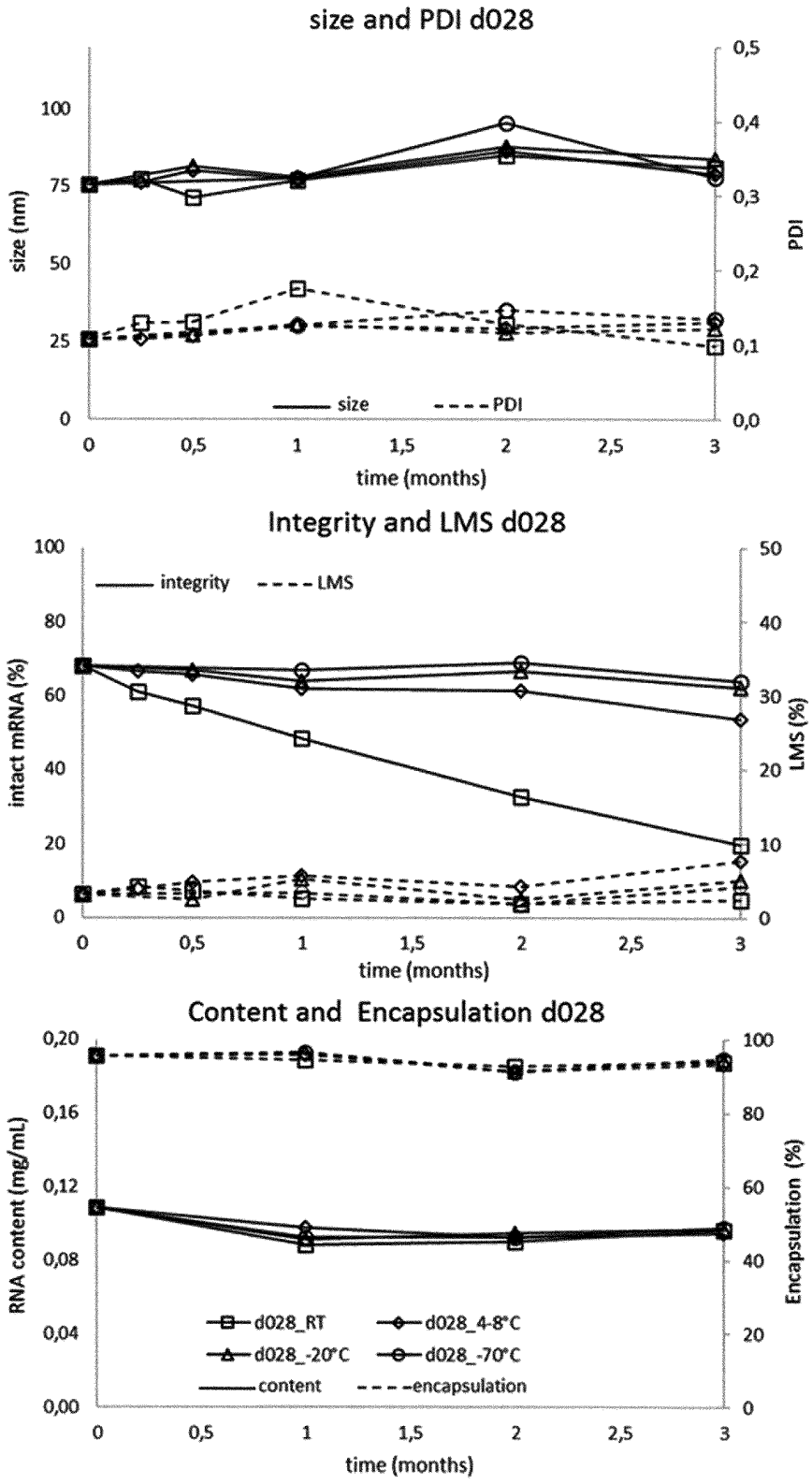

size and PDI d028
size (nm)
PDI
time (months)
size
PDI
Integrity and LMS d028
intact mRNA (%)
LMS (%)
integrity
LMS
time (months)
Content and Encapsulation d028
RNA content (mg/mL)
Encapsulation (%)
d028_RT
d028_4-8°C
d028_-20°C
d028_-70°C
content
encapsulation
time (months)

Fig. 5 (continued)

B

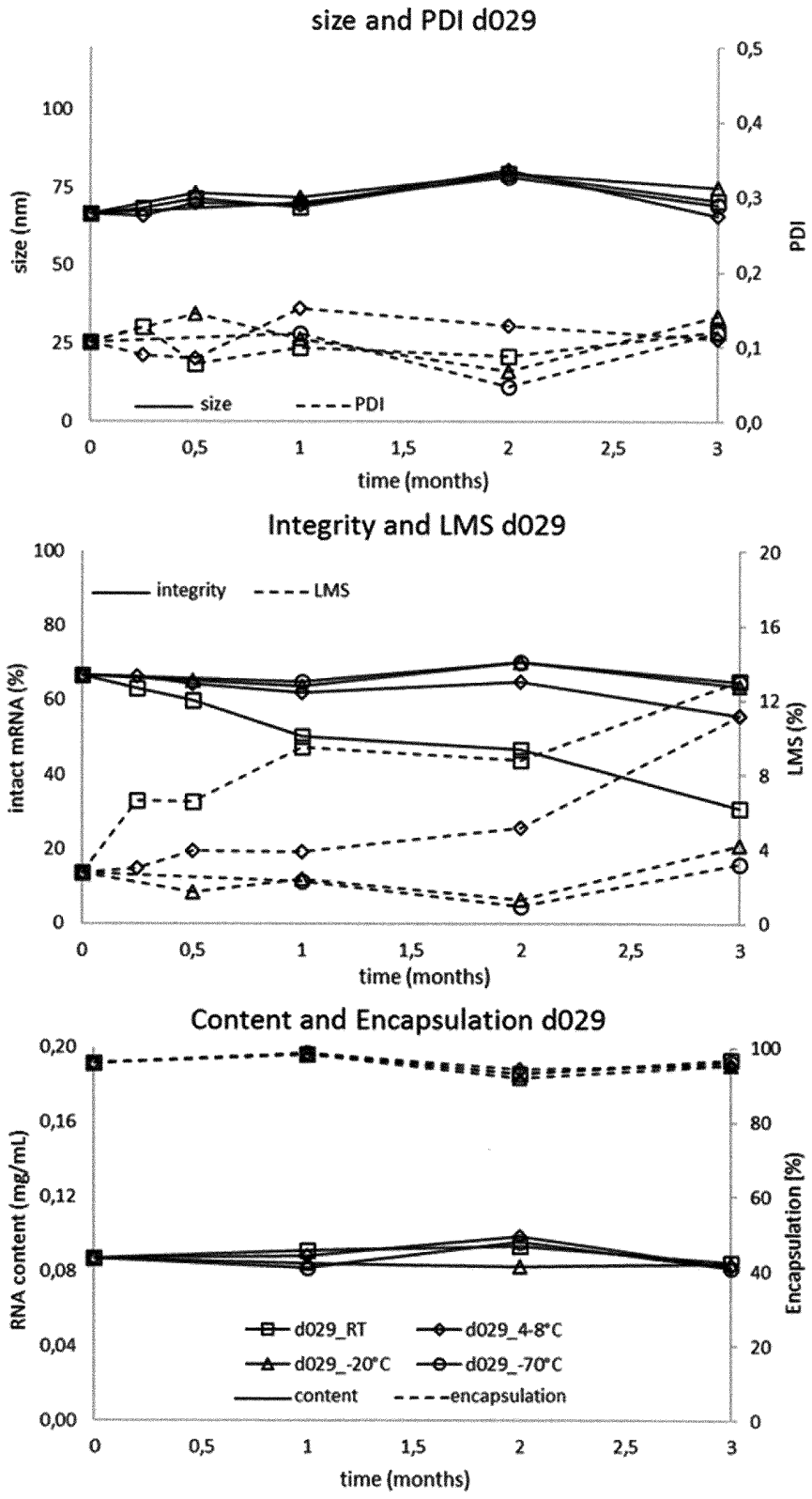


Fig. 5 (continued)

C

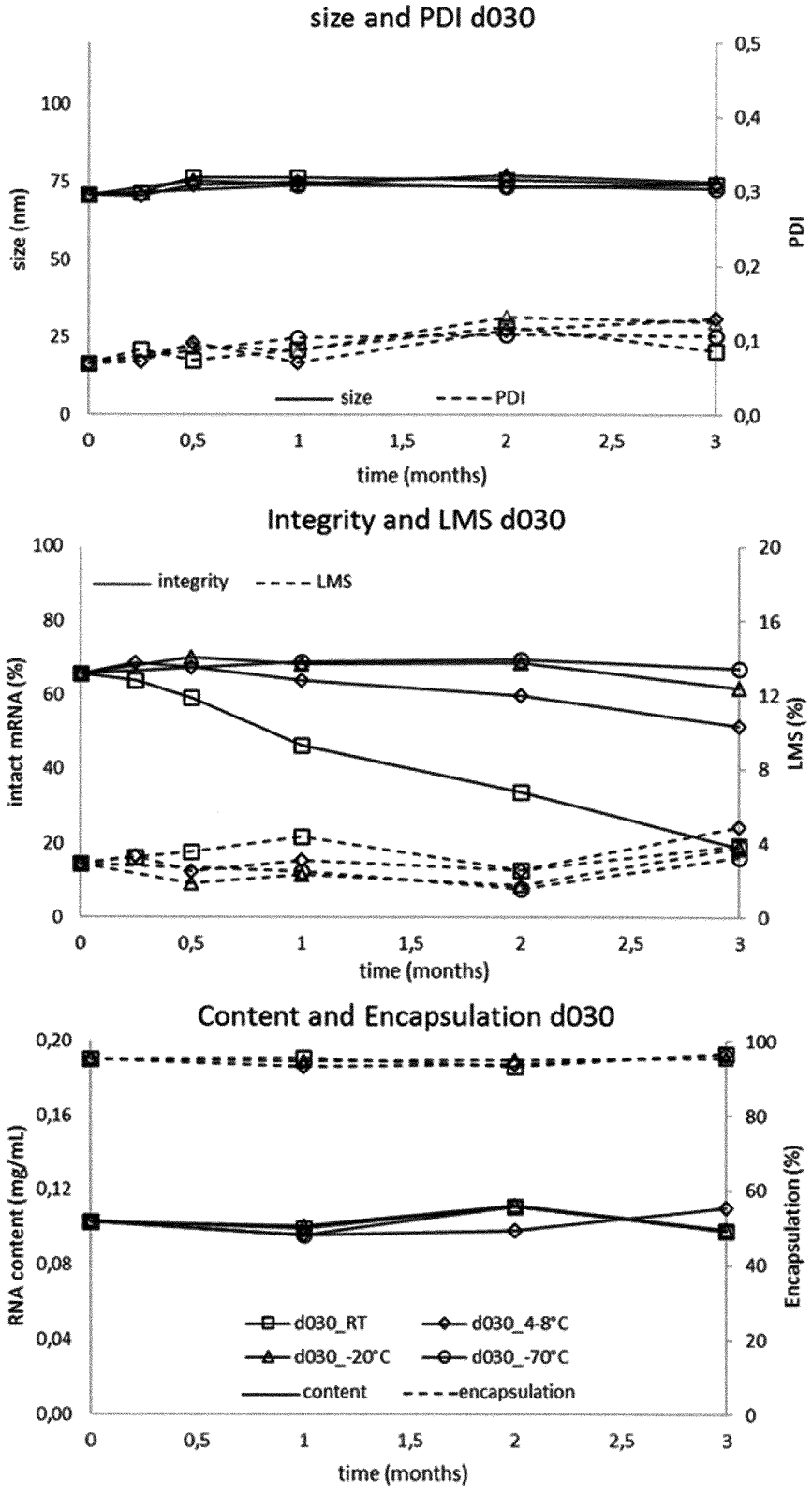


Fig. 6

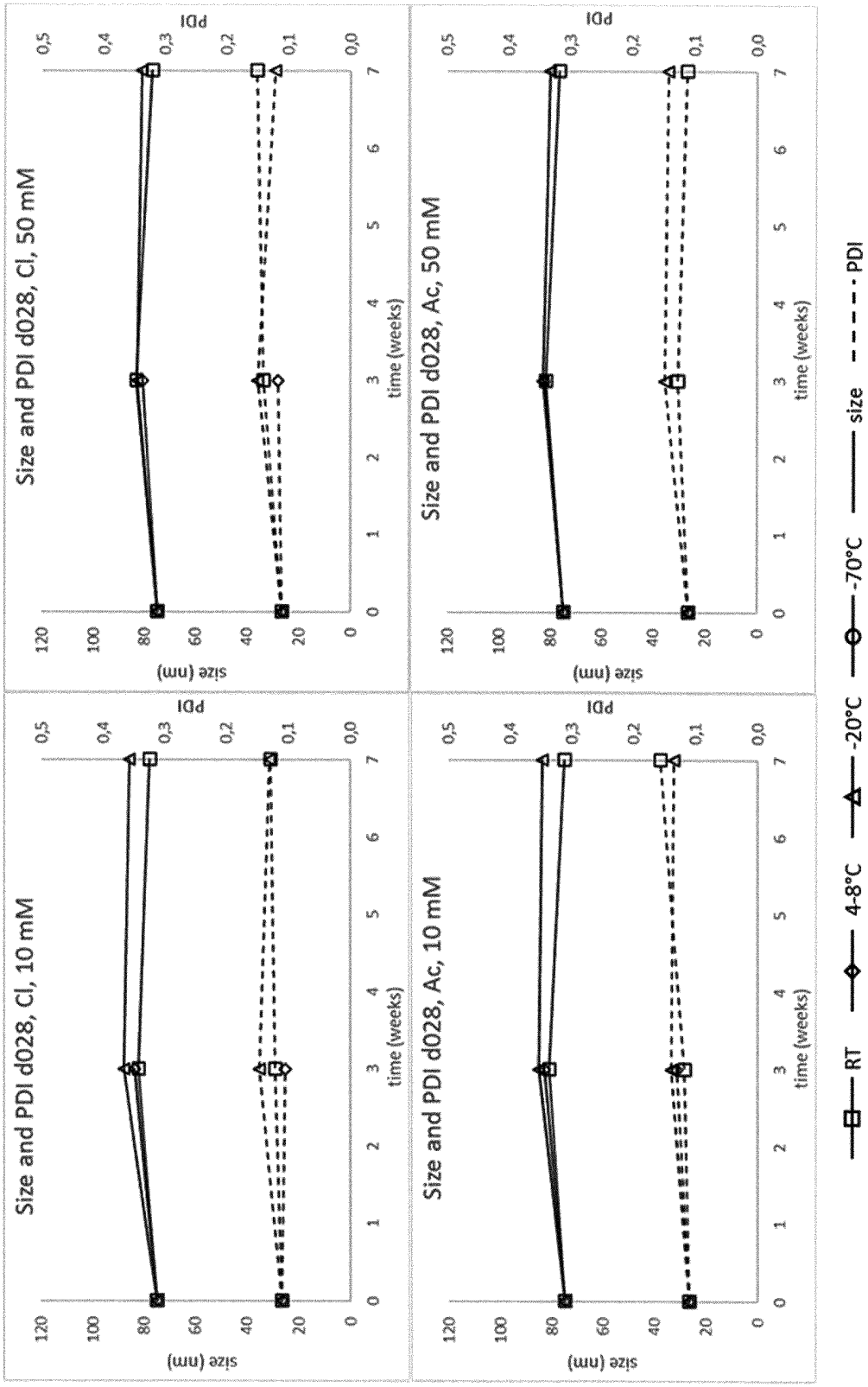

Size and PDI d028, Cl, 50 mM
Size and PDI d028, Ac, 50 mM
Size and PDI d028, Cl, 10 mM
Size and PDI d028, Ac, 10 mM
size (nm)
PDI
time (weeks)
RT
4-8°C
-20°C
-70°C
size
PDI

Fig. 7

				-20C			+5C		RT		
Fill	Source	Buffer	Strenght	T7	T19	T49	T7	T19	T7	T19	T49
	DS Ref			75,9			75,9		75,9		
RNA	d028	Cl	50	63,8	58,6	49,1	63,8	59,5	58,5	44,4	19,1
	d028	Cl	10	61,8	63,1	60,6	64,4	59,4	60,8	49,8	28,7
	d028	Ac	50	64,5	62,0	48,8	61,2	57,7	57,6	42,3	16,3
	d028	Ac	10	64,1	61,9	60,2	64,0	59,3	60,4	47,5	24,1
LMS	d028	Cl	50	4,0	4,0	2,8	3,8	4,3	4,6	3,6	1,6
	d028	Cl	10	4,0	4,1	3,6	4,3	5,5	5,6	6,1	4,9
	d028	Ac	50	4,5	4,2	2,9	4,1	4,3	4,3	3,3	1,3
	d028	Ac	10	4,2	5,2	3,8	4,2	5,0	5,4	5,4	5,2
Frag	d028	Cl	50	31,5	36,1	45,5	32,1	35,0	35,8	50,6	75,9
	d028	Cl	10	32,9	31,6	34,9	30,9	33,7	32,7	42,6	65,3
	d028	Ac	50	30,3	32,9	46,0	33,6	36,5	37,2	53,1	78,9
	d028	Ac	10	31,0	31,5	34,8	31,2	34,2	33,5	45,7	68,2