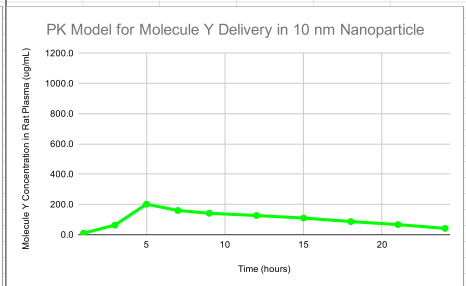
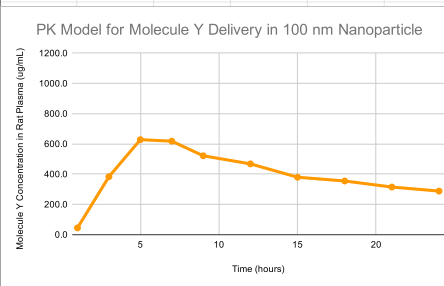
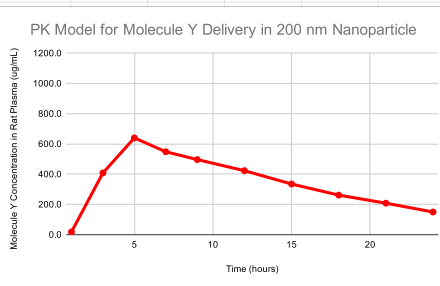
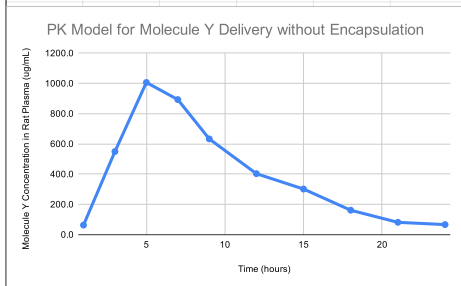


[illegible]

Formulation Time (hours)	API (Active Product Ingredient)			200 nm Solid Nanoparticle			100 nm Solid Nanoparticle			10 nm Solid Nanoparticle		
	Rat 1	Rat 2	Rat 3	Rat 1	Rat 2	Rat 3	Rat 1	Rat 2	Rat 3	Rat 1	Rat 2	Rat 3
1	60	30	100	10	20	25	40	60	35	5	10	15
3	700	550	400	300	500	425	350	425	375	50	75	65
5	1020	800	1200	545	760	615	675	845	665	175	225	205
7	950	650	1080	500	600	545	545	710	600	125	185	170
9	850	525	900	475	515	500	475	575	515	100	170	155
12	600	400	775	415	425	430	435	500	470	85	155	140
15	400	300	615	345	310	350	380	400	360	70	140	120
18	325	250	500	250	260	275	330	355	300	50	120	90
21	300	225	440	210	200	215	315	295	265	35	95	70
24	250	175	300	150	160	140	295	245	215	25	55	45

API (Active Product Ingredient)						200 nm Solid Nanoparticle						100 nm Solid Nanoparticle						10 nm Solid Nanoparticle							
Time (hours)	Rat 1	Rat 2	Rat 3	Rat AVG	Rat SEM	Time (hours)	Rat 1	Rat 2	Rat 3	Rat AVG	Rat SEM	Time (hours)	Rat 1	Rat 2	Rat 3	Rat AVG	Rat SEM	Time (hours)	Rat 1	Rat 2	Rat 3	Rat AVG	Rat SEM		
1	3	60	30	100	63.3	24.8	1	10	20	25	18.3	5.4	1	3	40	60	35	45.0	9.4	1	5	10	15	10.0	3.5
3	700	550	400	550	106.1	3	300	500	425	408.3	71.4	3	350	425	375	383.3	27.0	3	50	75	65	63.3	8.9		
5	1020	800	1200	1006.7	141.7	5	545	760	615	640.0	77.5	5	575	745	565	628.3	71.5	5	175	225	205	201.7	17.8		
7	950	650	1080	893.3	155.9	7	500	600	545	548.3	35.4	7	545	710	600	618.3	59.4	7	125	165	170	160.0	22.1		
9	700	525	675	633.3	66.9	9	475	515	500	496.7	14.3	9	475	575	515	521.7	35.6	9	100	170	155	141.7	26.1		
12	450	315	445	403.3	54.1	12	415	425	430	423.3	5.4	12	435	500	425	468.3	23.0	12	85	155	140	126.7	26.1		
15	300	250	355	301.7	37.1	15	345	310	350	335.0	15.4	15	380	400	360	380.0	14.1	15	70	140	120	110.0	25.5		
18	150	135	200	161.7	24.1	18	250	260	275	261.7	8.9	18	350	385	330	355.0	19.7	18	50	120	90	86.7	24.8		
21	85	60	100	81.7	14.3	21	210	200	215	208.3	5.4	21	345	305	295	315.0	18.7	21	35	95	70	66.7	21.3		
24	75	45	80	66.7	13.4	24	150	160	140	150.0	7.1	24	315	285	265	288.3	17.8	24	25	55	45	41.7	10.8		



Time (hours)	API AVG	API AUC	DOA (above 500)
1	63.3	613.3333333	
3	550	1556.666667	
5	1006.7	1900	
7	893.3	1526.666667	
9	633.3	1555	
12	403.3	1057.5	
15	301.7	695	
18	161.7	365	
21	81.7	222.5	
24	66.7		
	API AUC	9491.666667	ug * hour / mL

Time (hours)	200 AVG	200 AUC		DOA (above 500)
1	18.33333333	426.6666667		
3	408.3333333	1048.333333		
5	640	1188.333333		
7	548.3333333	1045		
9	496.6666667	1380		
12	423.3333333	1137.5		
15	335	895		
18	261.6666667	705		
21	208.3333333	537.5		
24	150			
	200 AUC	8363.333333	ug * hour / mL	

Time (hours)	100 AVG	100 AUC		DOA (above 500)
1	45	428.333333		
3	383.333333	1011.666667		
5	628.333333	1246.666667		
7	618.333333	1140		
9	521.666667	1485		
12	468.333333	1272.5		
15	380	1102.5		
18	355	1005		
21	315	905		
24	288.333333			
	100 AUC	9596.666667	ug * hour / mL	

Time (hours)	10 AVG	10 AUC	DOA (above 500)
1	10	73.33333333	
3	63.33333333	265	
5	201.6666667	361.6666667	
7	160	301.6666667	
9	141.6666667	402.5	
12	126.6666667	355	
15	110	295	
18	86.66666667	230	
21	66.66666667	162.5	
24	41.66666667		
	10 AUC	2446.666667	ug * hour / mL

