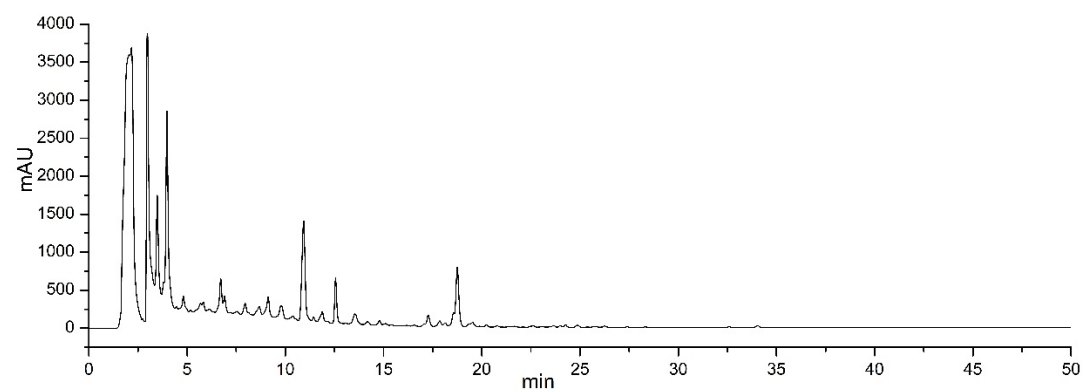
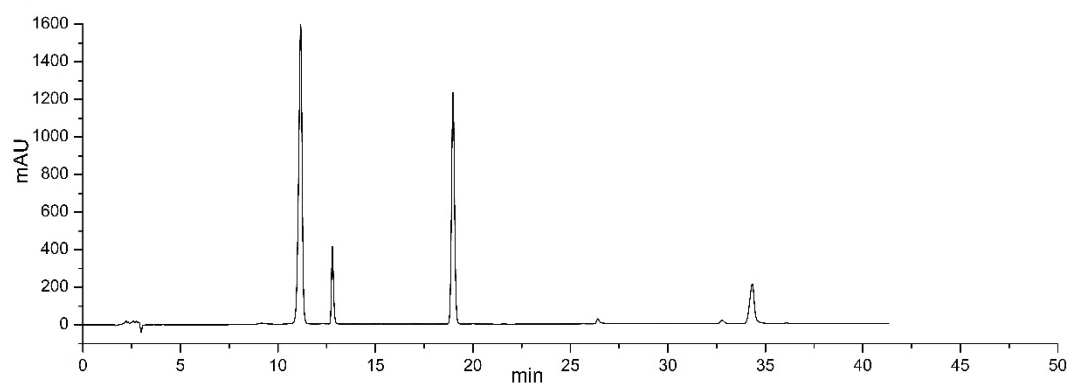
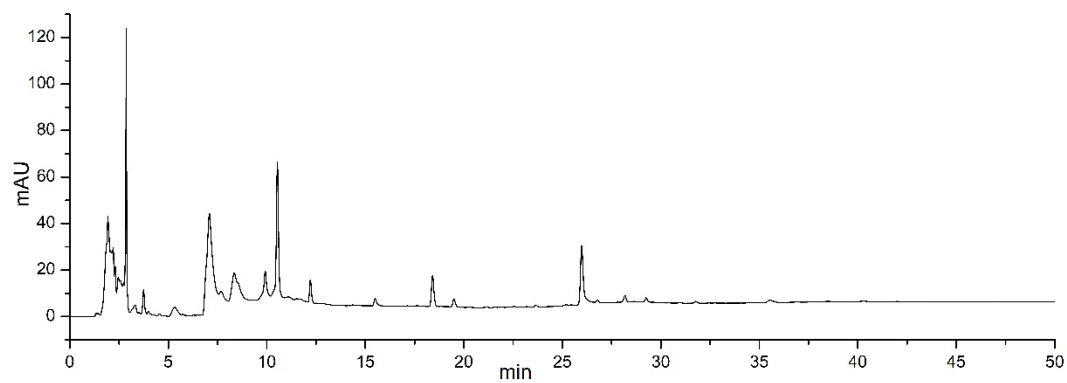


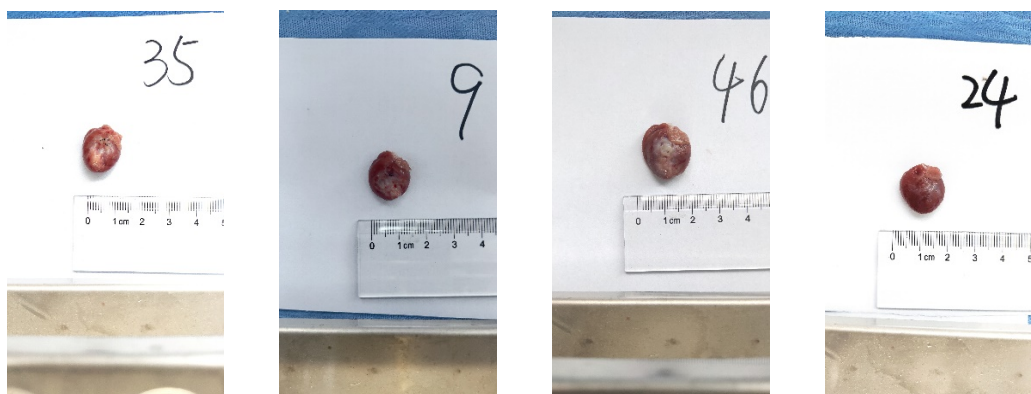
Figure 1





	Standards			LGSGT			serum			
	Retention time	Peak area	Standard concentration	Retention time	Peak area	Active ingredient concentration	Retention time	Peak area	Serum concentration after dilution	The actual serum concentration of each substance
cinnamic acid	11.169	19946.03	204.6	10.934	14963.61	153.4919732	10.539	407.6701	4.181750098	12.5452503
glycyrrhizic acid	12.793	3165.66	435.8	12.557	4513.441	621.3420582	12.211	65.5447	9.023198751	27.06959625
atractylenolide III	18.979	13317.45	102.2	18.753	8791.831	67.46975086	18.414	126.0993	0.967703832	2.903111496
Pachymic acid	34.329	3749.73	184.5	34.038	379.5663	18.67600514				

Figure 2

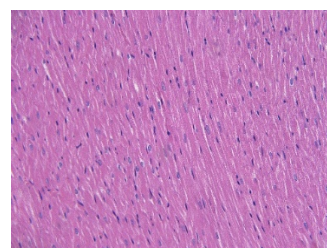
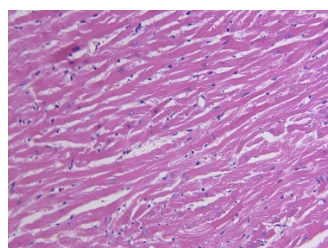
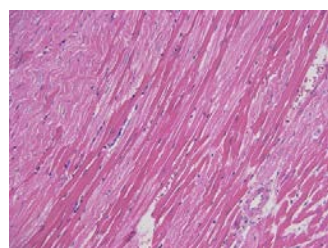
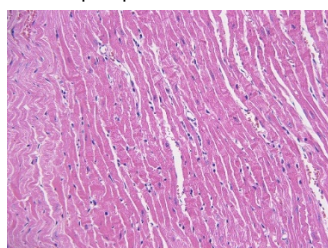


Captopril

LGSGT

model

sham



Captopril

LGSGT

model

Sham

Group	Number	BW	HW	HW/BW	exhausted swimming time (s)
LGS GT	6	435	1.151	2.646	1047
	13	463	1.259	2.7192	1185
	19	470	1.302	2.7702	956
	9	478	1.323	2.7678	1069
	67	442	1.176	2.6606	1243
	60	449	1.187	2.6437	1362
	23	490	1.312	2.6776	1270
	51	454	1.171	2.5793	1439
	10	459	1.183	2.5773	1333
captopril	8	495	1.235	2.4949	1549
	41	456	1.208	2.6491	1473
	35	469	1.191	2.5394	1360
	11	480	1.242	2.5875	1601
	42	496	1.283	2.5867	1371
	33	495	1.259	2.5434	893
	34	480	1.256	2.6167	1347
	3	464	1.186	2.556	1094
	2	460	1.214	2.6391	1116
model	30	500	1.348	2.696	1242
	37	478	1.234	2.5816	1078
	45	456	1.238	2.7149	644
	57	441	1.226	2.78	751
	44	436	1.196	2.7431	737
	29	448	1.218	2.7188	1037
	7	436	1.285	2.9472	834
	25	425	1.224	2.88	694
	66	436	1.232	2.8257	748
sham	49	433	1.194	2.7575	893
	46	548	1.396	2.5474	925
	12	522	1.302	2.4943	1760
	24	424	1.107	2.6108	1957
	28	468	1.128	2.4103	1524
	38	470	1.167	2.483	1635
	1	485	1.345	2.7732	1560
	39	488	1.275	2.6127	1536
	65	501	1.375	2.7445	1447
	68	459	1.169	2.5468	1484
	52	467	1.141	2.4433	1837
	59	524	1.356	2.5878	1749
	58	560	1.411	2.5196	1068

Figure 3



Captopril



LGS GT



Model



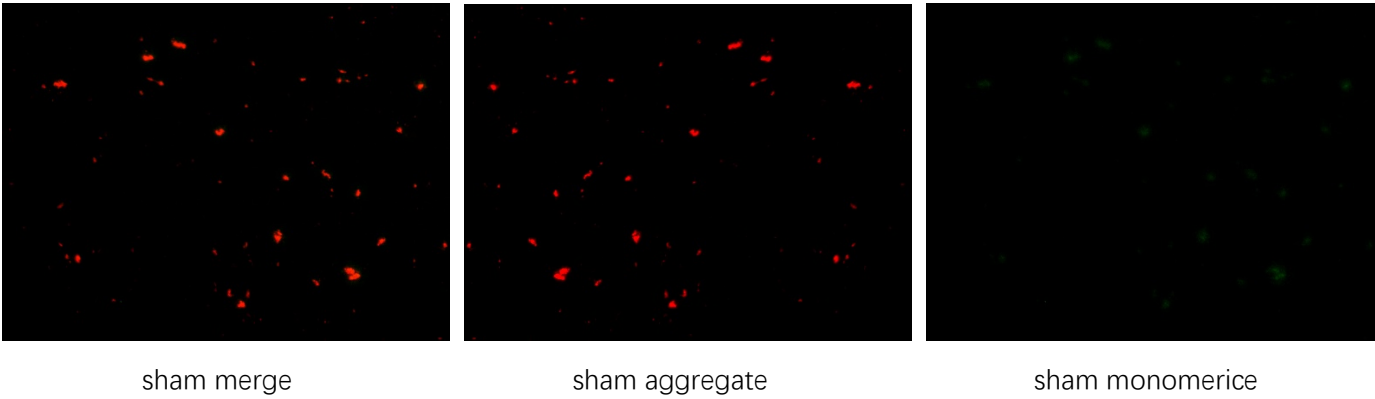
Sham

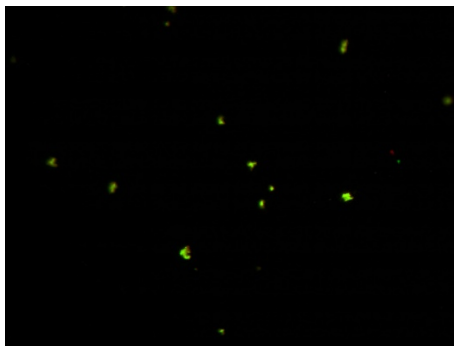
Group	number	EF	FS	LVIDd	LVIDs
model	44	33.2623	16.6902	9.62983	8.02259
	66	39.0611	19.9708	9.34379	7.47776
	49	39.3255	20.1439	9.46638	7.55948
	46	52.3564	28.1931	9.05679	6.50339
	57	33.7025	16.8224	8.74448	7.27345
	45	35.9032	18.1306	9.23053	7.55697
	29	39.125	20.0191	9.41716	7.53193
	7	39.1711	20.0194	9.23761	7.3883
	25	37.3419	19.2397	11.5717	9.34534
sham	24	86.0441	56.457	6.27842	2.73382
	59	76.384	45.6075	5.56118	3.02487
	58	78.1327	47.4157	5.78207	3.04046
	28	84.7633	55.2786	7.08921	3.1704
	39	71.482	42	7.27632	4.22026
	65	89.1841	61.1594	7.17237	2.78579
	68	89.3472	61.3933	7.16197	2.765
	38	80.4094	50.4301	7.20294	3.57049
	1	80.0732	50	7.02684	3.51342
	52	77.9658	47.839	6.97487	3.63816
	12	85.7145	55.9524	6.11211	2.69224
	42	65.3712	37.3266	8.24303	5.16618
captopri I	34	52.1556	27.6353	7.29711	5.28053
	2	60.5209	33.3333	7.14118	4.76079
	37	57.6351	31.3725	7.42184	5.09342
	11	60.3891	33.6574	8.55487	5.67553
	41	56.612	30.8579	8.11829	5.61316
	35	52.6524	28.0438	7.59855	5.46763
	33	57.5287	31.5051	8.14947	5.58197
	3	55.2399	29.9751	8.35737	5.85224
	30	50.9141	27.027	8.07671	5.89382
LGSGT	67	56.079	30.4117	7.82724	5.44684
	9	60.0392	33.3333	8.295	5.53
	8	60.5767	33.7469	8.37816	5.55079
	19	57.1883	31.3505	8.47207	5.81603
	6	53.1345	28.5171	8.20145	5.86263
	13	47.9249	25.1996	8.46305	6.3304
	60	53.8399	28.9575	8.07671	5.7379
	23	50.626	26.8695	8.20145	5.99776
	51	51.3097	27.2844	8.07671	5.87303
	10	51.6533	27.5776	8.36776	6.06013

Figure 4

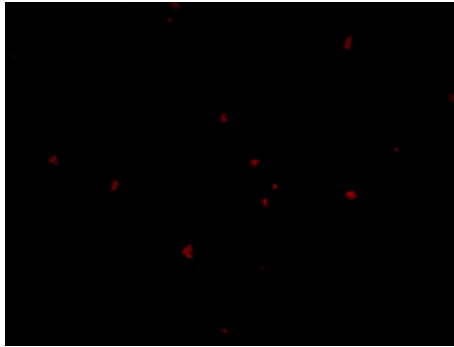
ST-2				NT-proBNP							
								y = 0.0002x + 0.0372			
LGSGT	6	0.429	139.603	LGSGT	450 1	540 1		0.177	699	6990	
	13	0.392	128.035		13	0.198	0.049	0.149	559	5590	
	19	0.456	148.175		19	0.362	0.05	0.312	1374	13740	
	9	0.461	149.774		9	0.295	0.046	0.249	1059	10590	
	67	0.565	183.888		67	0.251	0.048	0.203	829	8290	
	60	0.414	134.889		60	0.317	0.046	0.271	1169	11690	
	23	0.568	184.896		23	0.418	0.048	0.37	1664	16640	
	51	0.615	200.865		51	0.23	0.045	0.185	739	7390	
	10	0.335	110.614		10	0.22	0.046	0.174	684	6840	
	8	0.498	161.725		8	0.224	0.044	0.18	714	7140	
captopril	41	0.487	158.151	captopril	41	0.286	0.044	0.242	1024	10240	
	35	0.49	159.124		35	0.297	0.045	0.252	1074	10740	
	11	0.521	169.257		11	0.253	0.045	0.208	854	8540	
	42	0.51	165.645		42	0.332	0.051	0.281	1219	12190	
	33	0.578	188.266		33	0.585	0.052	0.533	2479	24790	
	34	0.455	147.855		34	0.208	0.046	0.162	624	6240	
	3	0.446	144.987		3	0.286	0.049	0.237	999	9990	
	2	0.352	115.759		2	0.201	0.046	0.155	589	5890	
	30	0.54	175.539		30	0.231	0.045	0.186	744	7440	
	37	0.619	202.24		37	0.257	0.044	0.213	879	8790	
model	45	0.731	241.695	model	45	0.623	0.053	0.57	2664	26640	
	57	0.851	286.055		57	0.415	0.044	0.371	1669	16690	
	44	0.988	339.335		44	0.79	0.052	0.738	3504	35040	
	29	0.735	243.139		29	0.308	0.048	0.26	1114	11140	
	7	0.97	332.174		7	0.296	0.051	0.245	1039	10390	
	25	0.899	304.402		25	0.474	0.049	0.425	1939	19390	
	66	1.259	453.011		66	0.363	0.047	0.316	1394	13940	
	49	0.837	280.768		49	0.587	0.049	0.538	2504	25040	
sham	46	0.925	314.485	sham	46	0.379	0.044	0.335	1489	14890	
	12	0.229	79.5127		12	0.232	0.045	0.187	749	7490	
	24	0.194	69.6129		24	0.396	0.057	0.339	1509	15090	
	28	0.323	107.009		28	0.194	0.045	0.149	559	5590	
	38	0.386	126.178		38	0.169	0.044	0.125	439	4390	
	1	0.248	84.9637		1	0.213	0.047	0.166	644	6440	
	39	0.316	104.916		39	0.347	0.055	0.292	1274	12740	
	65	0.259	88.1443		65	0.198	0.045	0.153	579	5790	
	68	0.214	75.2475		68	0.16	0.045	0.115	389	3890	
	52	0.208	73.5508		52	0.213	0.045	0.168	654	6540	
	59	0.368	120.641		59	0.127	0.048	0.079	209	2090	
	58	0.374	122.481		58	0.148	0.046	0.102	324	3240	

Figure 5

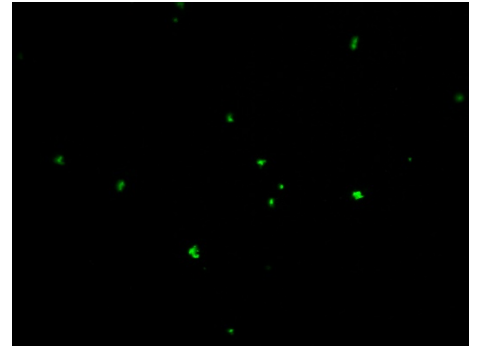




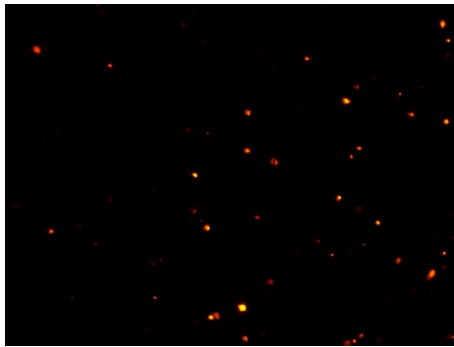
model merge



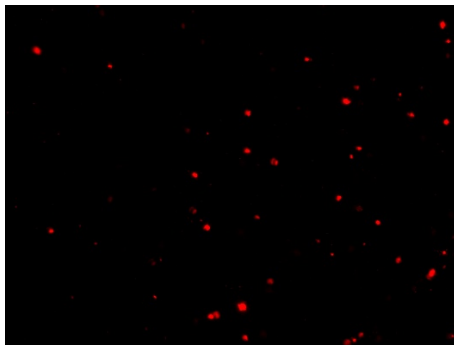
model aggregate



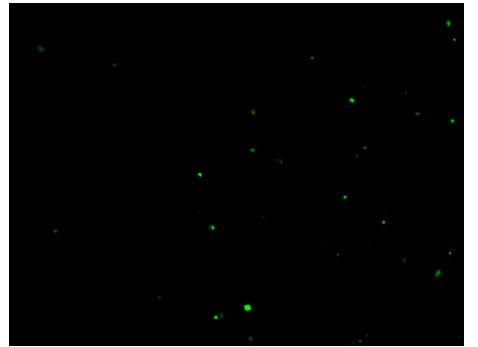
model monomerice



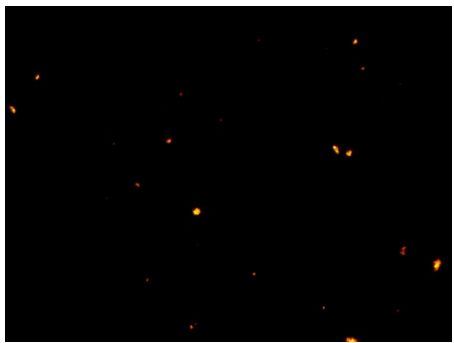
LGSGT merge



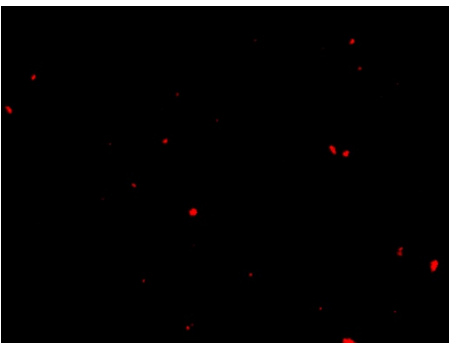
LGSGT aggregate



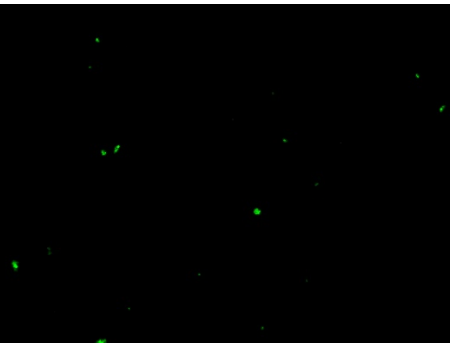
LGSGT monomerice



captopril merge



captopril aggregate



captopril monomerice

mtDNA

		β-actin	mtDNA				
LGSGT	6	21.59	22.19	model	45	20.31	20.4
	13	21.27	19.41		57	20.92	20.04
	19	20.37	18.78		44	21.76	20.21
	9	21.59	20.04		29	21.87	23.02
	67	21.56	18.89		7	21.28	22.14
	60	21.6	17.86		25	20.42	22.14
	23	21.56	18.44		66	22.3	17.74
	51	21.35	18.89		49	22.69	18.11
	10	21.56	17.6		46	21.43	20.03
	8	22.51	21.36	sham	12	21.97	18.3
captopril	41	23.17	19.45		24	22.1	22.67
	35	21.1	19.17		28	20.9	19.09
	11	20.53	18.09		38	23.57	22.37
	42	22.63	20.63		1	21.28	17.91
	33	22.18	20.22		39	21.07	19.21
	34	21.88	17.54		65	21.22	20.2
	3	22.79	21.23		68	22.49	19.42
	2	21.8	20.07		52	21.25	18.87
	30	22.16	18.25		59	20.02	18.01
	37	20.99	21.01		58	21.32	19.61

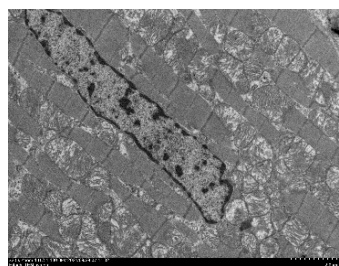
SOD

						SOD	
captopril	2	0.258	0.063	0.195	0.3	0.65	117.6
	33	0.196	0.063	0.133	0.3	0.44333	187.04
	37	0.21	0.063	0.147	0.3	0.49	171.36
	30	0.149	0.063	0.086	0.3	0.28667	239.68
	41	0.216	0.063	0.153	0.3	0.51	164.64
	35	0.223	0.063	0.16	0.3	0.53333	156.8
	11	0.194	0.063	0.131	0.3	0.43667	189.28
	42	0.257	0.063	0.194	0.3	0.64667	118.72
	3	0.228	0.063	0.165	0.3	0.55	151.2
	34	0.246	0.063	0.183	0.3	0.61	131.04
LGSGT	51	0.251	0.063	0.188	0.3	0.62667	125.44
	23	0.231	0.063	0.168	0.3	0.56	147.84
	8	0.272	0.063	0.209	0.3	0.69667	101.92
	10	0.189	0.063	0.126	0.3	0.42	194.88
	60	0.204	0.063	0.141	0.3	0.47	178.08
	9	0.229	0.063	0.166	0.3	0.55333	150.08
	13	0.183	0.063	0.12	0.3	0.4	201.6
	19	0.198	0.063	0.135	0.3	0.45	184.8
	6	0.213	0.063	0.15	0.3	0.5	168
	67	0.189	0.063	0.126	0.3	0.42	194.88
model	29	0.297	0.063	0.234	0.3	0.78	73.92
	44	0.273	0.063	0.21	0.3	0.7	100.8
	49	0.193	0.063	0.13	0.3	0.43333	190.4
	7	0.182	0.063	0.119	0.3	0.39667	202.72
	46	0.254	0.063	0.191	0.3	0.63667	122.08
	45	0.228	0.063	0.165	0.3	0.55	151.2
	25	0.276	0.063	0.213	0.3	0.71	97.44
	57	0.246	0.063	0.183	0.3	0.61	131.04
	66	0.303	0.063	0.24	0.3	0.8	67.2
	39	0.185	0.063	0.122	0.3	0.40667	199.36
sham	24	0.173	0.063	0.11	0.3	0.36667	212.8
	38	0.126	0.063	0.063	0.3	0.21	265.44
	1	0.097	0.063	0.034	0.3	0.11333	297.92
	68	0.263	0.063	0.2	0.3	0.66667	112
	59	0.18	0.063	0.117	0.3	0.39	204.96
	28	0.146	0.063	0.083	0.3	0.27667	243.04
	12	0.109	0.063	0.046	0.3	0.15333	284.48
	58	0.206	0.063	0.143	0.3	0.47667	175.84
	65	0.131	0.063	0.068	0.3	0.22667	259.84
	52	0.051	0.063	-0.012	0.3	-0.04	349.44

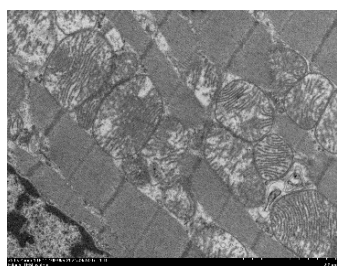
MDA

					MDA	
LGSGT	51	0.071	0.044	0.027	7.10526	
	23	0.063	0.044	0.019	5	
	8	0.064	0.044	0.02	5.26316	
	10	0.062	0.044	0.018	4.73684	
	60	0.059	0.044	0.015	3.94737	
	9	0.061	0.044	0.017	4.47368	
	13	0.058	0.044	0.014	3.68421	
	19	0.06	0.044	0.016	4.21053	
	6	0.068	0.044	0.024	6.31579	
	67	0.058	0.044	0.014	3.68421	
captopril	2	0.059	0.044	0.015	3.94737	
	33	0.072	0.044	0.028	7.36842	
	37	0.059	0.044	0.015	3.94737	
	30	0.062	0.044	0.018	4.73684	
	41	0.064	0.044	0.02	5.26316	
	35	0.062	0.044	0.018	4.73684	
	11	0.07	0.044	0.026	6.84211	
	42	0.065	0.044	0.021	5.52632	
	3	0.056	0.044	0.012	3.15789	
	34	0.066	0.044	0.022	5.78947	
sham	39	0.053	0.044	0.009	2.36842	
	24	0.064	0.044	0.02	5.26316	
	38	0.054	0.044	0.01	2.63158	
	1	0.056	0.044	0.012	3.15789	
	68	0.054	0.044	0.01	2.63158	
	59	0.055	0.044	0.011	2.89474	
	28	0.066	0.044	0.022	5.78947	
	12	0.056	0.044	0.012	3.15789	
	58	0.055	0.044	0.011	2.89474	
	65	0.056	0.044	0.012	3.15789	
model	52	0.054	0.044	0.01	2.63158	
	29	0.069	0.044	0.025	6.57895	
	44	0.072	0.044	0.028	7.36842	
	49	0.053	0.044	0.009	2.36842	
	7	0.073	0.044	0.029	7.63158	
	46	0.069	0.044	0.025	6.57895	
	45	0.071	0.044	0.027	7.10526	
	25	0.065	0.044	0.021	5.52632	
	57	0.075	0.044	0.031	8.15789	
	66	0.074	0.044	0.03	7.89474	

Figure 6



Captopril 2500X



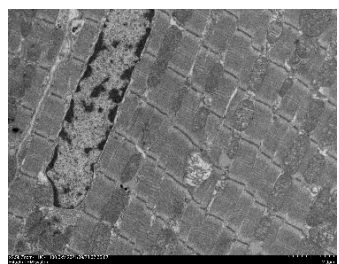
Captopril 5000X



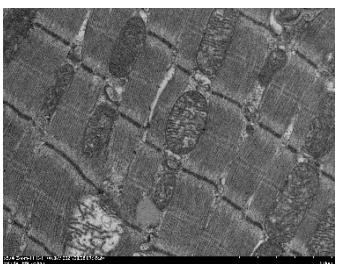
Captopril 10000X



Captopril 20000X



LGSGT 2500X



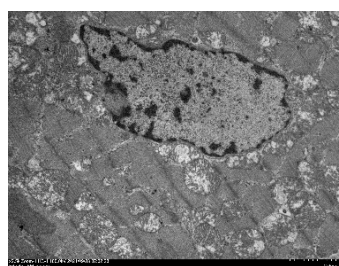
LGSGT 5000X



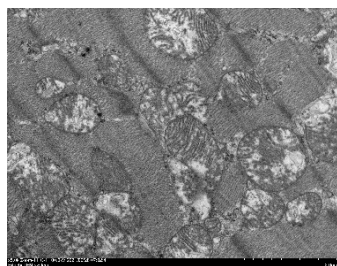
LGSGT 10000X



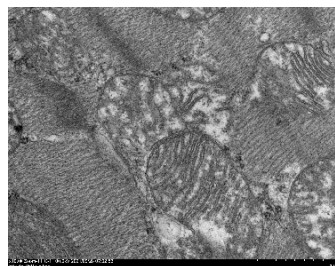
LGSGT 20000X



model 2500X



model 5000X



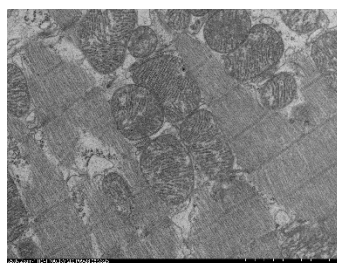
model 10000X



model 20000X



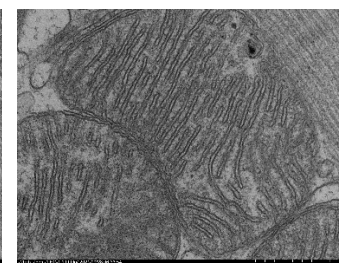
sham 2500X



sham 5000X



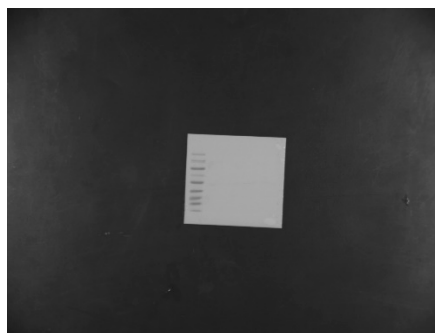
sham 10000X



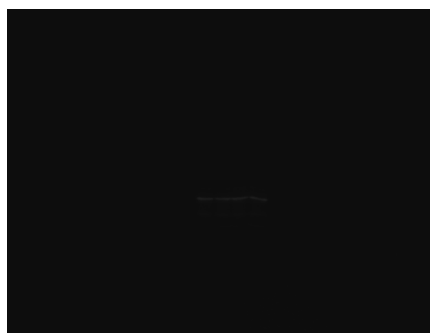
sham 20000X

Figure 7

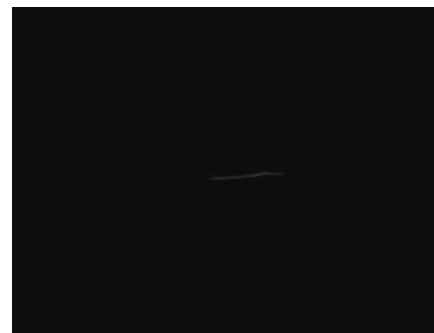
		β -actin	Sirt1	AMPK	PGC-1 α	TFAM	NRF
LGSST	6	21.59	30.47	NoCt	28.62	24.62	28.36
	13	21.27	27.73	24.58	26.3	22.08	21.53
	19	20.37	28.67	23.88	27.69	22.27	21.9
	9	21.59	29.29	23.76	30.21	23.73	23.5
	67	21.56	28.84	24.03	30.12	23.72	20.92
	60	21.6	28	25.45	30.32	22.84	23.68
	23	21.56	29.23	24.68	30.45	23.66	23.28
	51	21.35	29.75	27.51	29.87	23.55	23.29
	10	21.56	29.34	25.54	32.28	24.82	23.86
	8	22.51	29.61	23.57	31	24.61	23.86
captopril	41	23.17	30.9	26.95	32.32	28.89	26.01
	35	21.1	27.51	24.99	28.43	24.02	24.53
	11	20.53	29.69	27.34	30.41	23.02	20.15
	42	22.63	30.93	24.24	31.8	25.76	27.54
	33	22.18	30.03	24.06	32.51	25.01	24.62
	34	21.88	29.86	25.39	30.04	23.5	23.07
	3	22.79	30.64	24.51	33.68	35.28	24.81
	2	21.8	28.28	25.18	30.59	24.57	22.07
	30	22.16	26.55	25.84	31.32	25.37	24.95
	37	20.99	26.74	24.72	30.49	22.1	22.93
model	45	20.31	28.51	22.91	27	21.94	23.44
	57	20.92	28.36	24.8	30.51	25.33	21.19
	44	21.76	29.09	22.15	32.25	31.78	21.17
	29	21.87	30.51	25.54	31.51	23.77	24.74
	7	21.28	29.82	30.04	31.88	24.76	23.68
	25	20.42	29.18	23.7	29.77	23.93	26.36
	66	22.3	30.35	28.91	31.49	25.91	21.54
	49	22.69	29.28	26.26	28.82	26.51	25.51
sham	46	21.43	30.76	25.26	31.55	28.14	23.85
	12	21.97	29.1	24.69	30.56	24.6	21.74
	24	22.1	30.25	25.81	30.85	24.92	27.38
	28	20.9	28.68	24.48	30.4	23.27	22.82
	38	23.57	29.74	27.97	32.04	25.28	24.22
	1	21.28	28.46	24.78	26.85	24.71	21.88
	39	21.07	28.68	22.71	29.45	23.53	22.47
	65	21.22	27.73	24.79	29.84	23.73	22.94
	68	22.49	29.81	26.18	31.05	24.7	24.17
	52	21.25	28.63	26.62	31.17	23.91	23.16
	59	20.02	27.13	24.11	28.58	20.55	22.78
	58	21.32	29.27	24.76	30.9	25.98	23.61



A AMPK marker



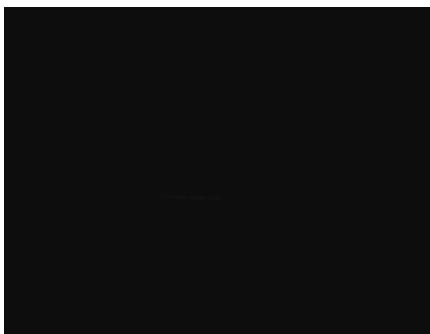
A AMPK



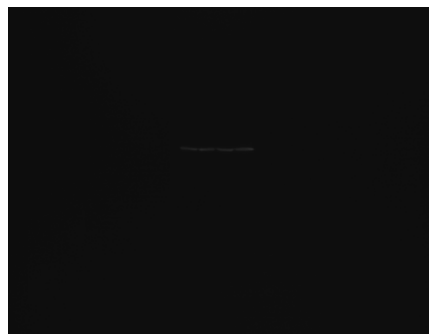
A AMPK GAPDH



B AMPK marker



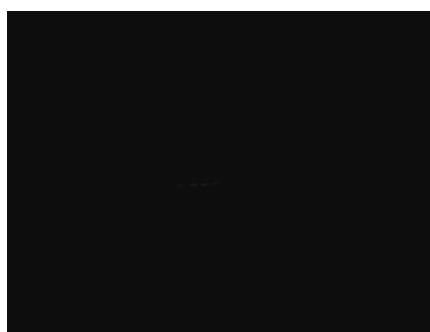
B AMPK



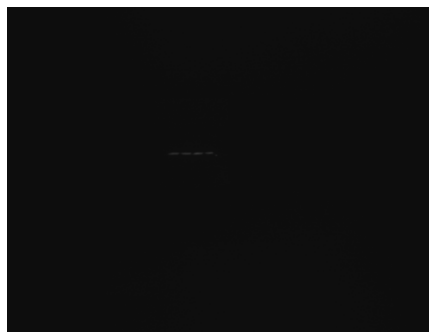
B AMPK GAPDH



C AMPK marker



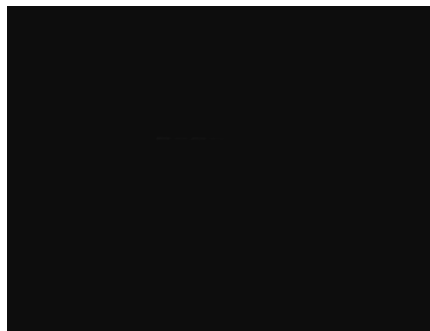
C AMPK



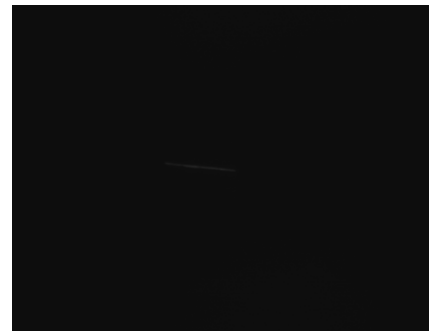
C AMPK GAPDH



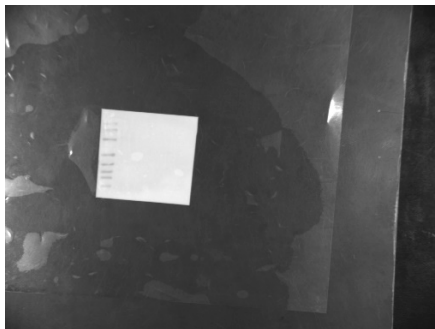
A pAMPK marker



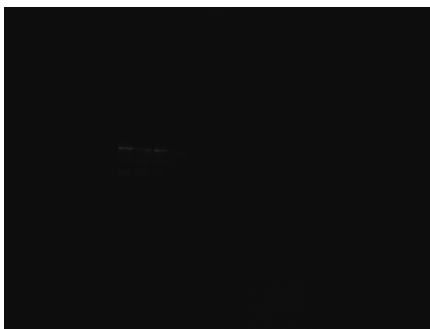
A pAMPK



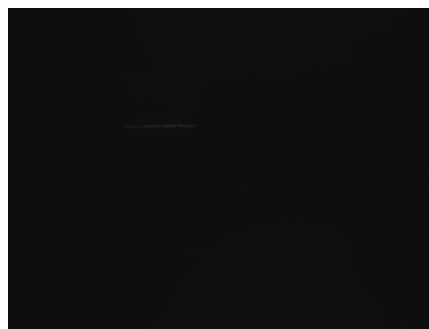
A pAMPK GAPDH



B pAMPK marker



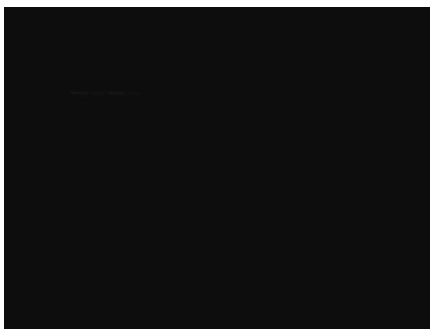
B pAMPK



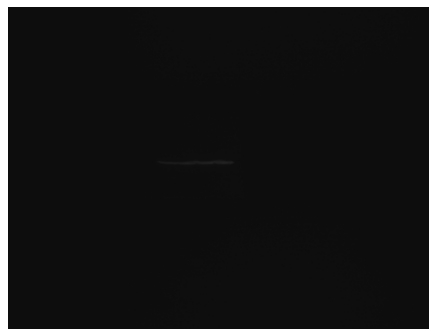
B pAMPK GAPDH



C pAMPK marker



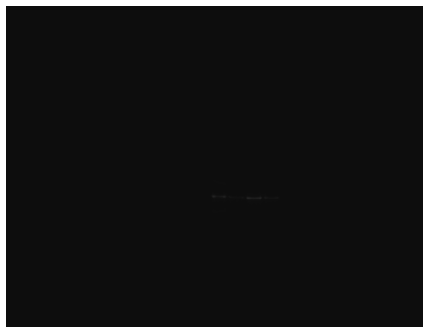
C pAMPK



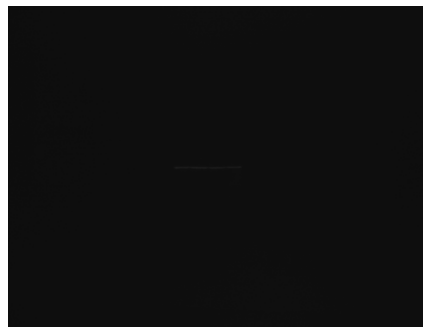
C pAMPK GAPDH



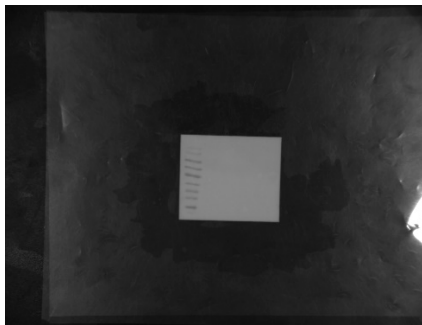
A PGC-1 α marker



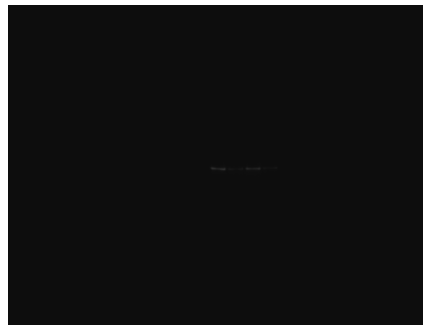
A PGC-1 α



A PGC-1 α GAPDH



B PGC-1 α marker



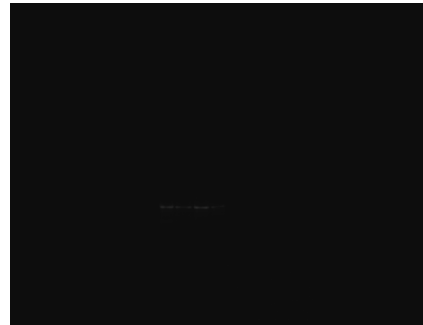
B PGC-1 α



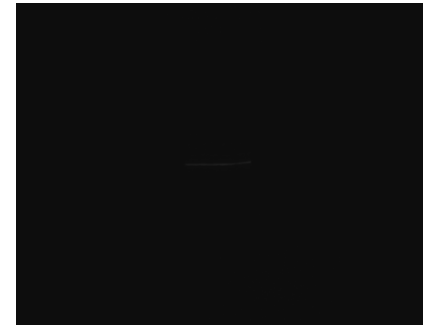
B PGC-1 α GAPDH



C PGC-1 α marker



C PGC-1 α



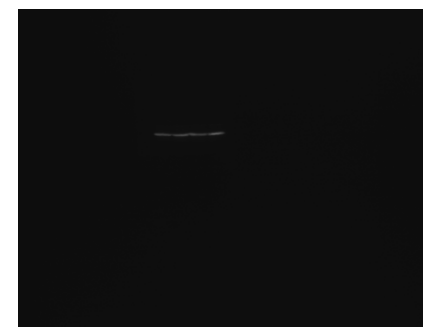
C PGC-1 α GAPDH



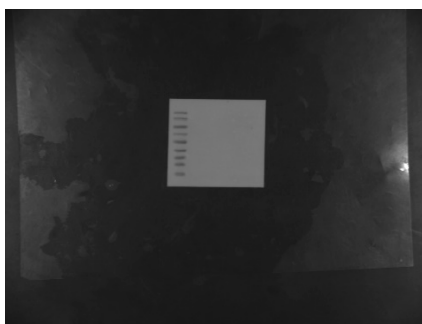
A Sirt1 marker



A Sirt1



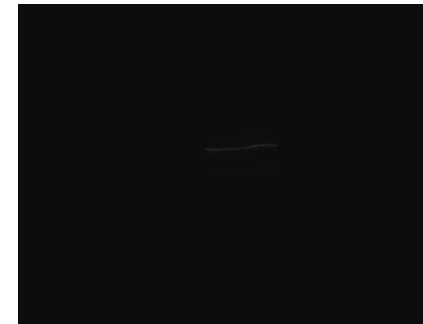
A Sirt1 GAPDH



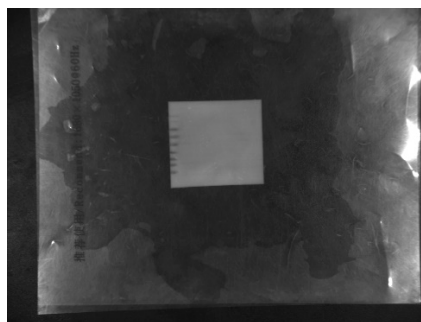
B Sirt1 marker



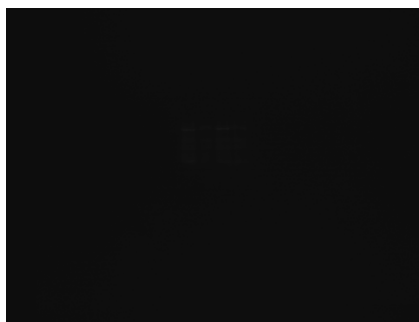
B Sirt1



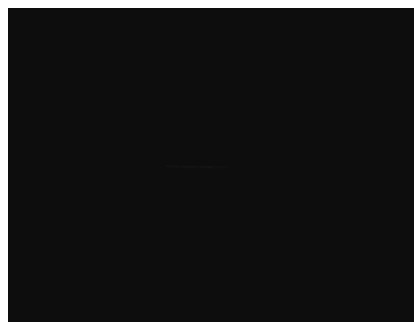
B Sirt1 GAPDH



C Sirt1 marker



C Sirt1



C Sirt1 GAPDH

WB pAMPK/AMPK

Sham	Model	LGSGT	Captopril
0.801264	0.356258	1.188642	0.379288
1.043980	0.303519	0.887955	0.224307
1.203462	0.192476	0.750245	0.552560

WB PGC-1 α

Sham	Model	LGSGT	Captopril
0.999684	0.256258	1.262765	0.482752
0.901264	0.314199	1.124749	0.542557
1.136350	0.370437	0.890245	0.644307

WB Sirt1

Sham	Model	LGSGT	Captopril
1.06674	0.139860	0.960784	0.470783
0.80785	0.303045	0.585770	0.270459
0.99409	0.408543	0.770966	0.403774