Table S1. Statistics analysis of trypanolytic assays on *T. brucei*, *T. lewisi* and *T. musculi* with serial dilutions of NHS for a 3-24 hours incubation. P values between groups were shown. While 0.01<p≤0.05 were shadowed in black, 0.001<p≤0.01 were shadowed in white, p≤0.001 were black boxed in white. Groups with cells under countable that were unable to be subjected to the student *t* test are indicated with "-".

T. brucei	Incubation	0.31%NHS	0.63%NHS	1.25%NHS	2.5%NHS	5.0%NHS	10.0%NHS
0%NHS	6h	p<0.001	p<0.001	p=0.005	p<0.001	p<0.001	p<0.001
	12h	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
	24h	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
0.31%NHS	6h		p=0.1186	p<0.001	p<0.001	p=0.004	p=0.160
	12h		p=0.3432	p<0.001	p<0.001	p=0.140	p=0.251
	24h		p=0.2614	p<0.001	p=0.060	p=0.269	p=0.193
0.63%NHS	6h			p=0.011	p=0.105	p=0.588	p=0.486
	12h			p<0.001	p=0.002	p=0.527	p=0.043
	24h			p<0.001	p=0.456	p=0.062	p=0.049
1.25%NHS	6h				p=0.072	p<0.001	p<0.001
	12h				p=0.118	p=0.002	p<0.001
	24h				p<0.001	p<0.001	p<0.001
2.5%NHS	6h					p=0.072	p=0.001
	12h					p=0.007	p<0.001
	24h					p=0.010	p=0.008
5.0%NHS	6h						p=0.054
	12h						p=0.016
	24h						p=0.332

T. lewisi	Incubation	0.31%NHS	0.63%NHS	1.25%NHS	2.5%NHS	5.0%NHS	10.0%NHS
0%NHS	6h	p=0.922	p=0.152	p=0.509	p=0.012	p<0.001	p<0.001
	12h	p=0.817	p=0.595	p=0.814	p=0.233	p=0.012	p<0.001
	24h	p=0.535	p=0.101	p=0.242	p=0.028	p=0.001	p<0.001
0.31%NHS	6h		p=0.225	p=0.552	p=0.031	p<0.001	p=0.001
	12h		p=0.743	p=0.984	p=0.310	p=0.016	p=0.251
	24h		p=0.259	p=0.513	p=0.065	p=0.002	p=0.193
0.63%NHS	6h			p=0.785	p=0.366	p=0.005	p=0.001
	12h			p=0.774	p=0.521	p=0.046	p=0.002
	24h			p=0.739	p=0.286	p=0.012	p<0.001
1.25%NHS	6h				p=0.351	p=0.018	p=0.003
	12h				p=0.354	p=0.026	p=0.001
	24h				p=0.233	p=0.017	p<0.001
2.5%NHS	6h					p=0.025	p=0.004
	12h					p=0.142	p=0.007
	24h					p=0.216	p=0.005
5.0%NHS	6h						p=0.107
	12h						p=0.128
	24h						p=0.035

T. musculi	Incubation	0.31%NHS	0.63%NHS	1.25%NHS	2.5%NHS	5.0%NHS	10.0%NHS
0%NHS	3h	p=0.727	p=0.010	p<0.001	p<0.001	p<0.001	p<0.001
	6h	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
	9h	p=0.024	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
	12h	p=0.005	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
	24h	p=0.500	p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
0.31%NHS	3h		p=0.131	p<0.001	p<0.001	p<0.001	p<0.001
	6h		p=0.024	p<0.001	p<0.001	p<0.001	p<0.001
	9h		p<0.001	p<0.001	p<0.001	p<0.001	p<0.001
	12h		p=0.002	p<0.001	p<0.001	p<0.001	p<0.001
	24h		p=0.010	p<0.001	p<0.001	p<0.001	p<0.001
0.63%NHS	3h			p<0.001	p<0.001	p<0.001	p<0.001
	6h			p<0.001	p<0.001	p<0.001	p<0.001
	9h			p<0.001	p<0.001	p<0.001	p<0.001
	12h			p<0.001	p<0.001	p<0.001	p<0.001
	24h			p<0.001	p<0.001	p<0.001	p<0.001
1.25%NHS	3h				p=0.001	p<0.001	p<0.001
	6h				p=0.015	p=0.015	p=0.015
	9h				p=0.003	p=0.003	p=0.003
	12h				p=0.003	p=0.003	p=0.003
	24h				p=0.006	p=0.006	p=0.006
2.5%NHS and 5.0%NHS	3h					-	-
	6h					-	-
	9h					-	-
	12h					-	-
	24h					-	-