Supplementary Table 1- Km of ATP for HtpG and Hsp90

E. coli (μM)	*B. burgdorferi (μM)*	*Human(μM)*	*T. denticola (μM)*
220	170	300	510

Supplementary Table 1: K_m's of Hsp90 homologues for ATP of Human and *E.coli* have previously been published while *B. burgdorferi* and *T. denticola* have not. These values are essential for calculating the K_i of each compound for each species. An indirect method to find these values was to find the proportional K_m to the known human value (K_m=300μM), $EC_{50}'s$ were calculated from their ATP elution (supplementary Fig 1E), $\frac{K_m(new\ species)}{K_m\ (published\ human)} = \frac{EC_{50}(new\ species)}{EC_{50}(human)}$.This method was confirmed using the known *E. coli* value.(K_m= 250±82 μM).

SUPPLEMENTARY TABLE 2- KD OF KNOWN HSP90 INHIBITORS

	E. coli (μM)	*B. burgdorferi (μM)*	*Human(μM)*	*T. denticola (μM)*
HS-198	5.8 +/- .6	5.6 +/- 3	---	---
HS-131	1.3	1 +/- .1	0.3	---
HS-10	4.1 +/-1	3.5+/-.3	0.2	7+/- 4
RADICICOL	0.1	0.1	0.09	3.0 +/- 2
PU-H71	4.3 +/- 1	0.5	0.3	5 +/- 3
GANETESPIB	0.1	0.1	0.1	0.03
GELDANAMYCIN	2.5 +/- .4	1.2 +/- .2	.9	5 +/- 3