

[Supporting Information]

Detecting and Discriminating *Shigella sonnei* using Aptamer-based Fluorescent Biosensor Platform

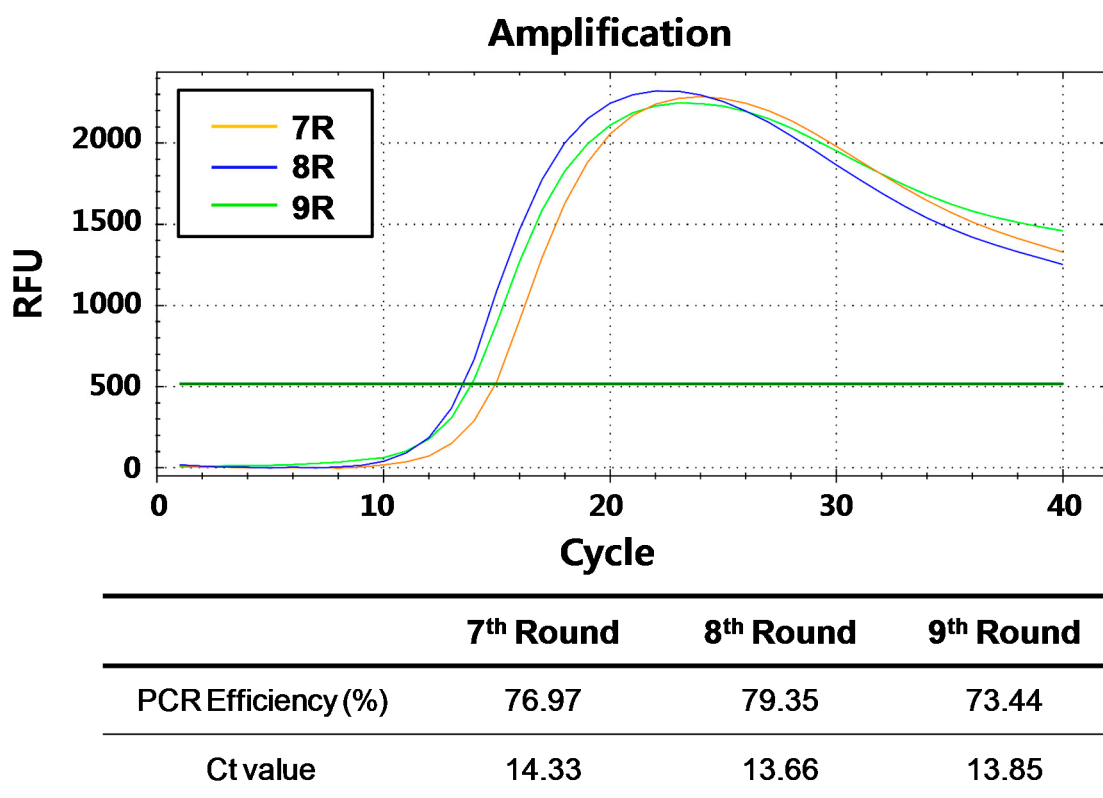


Figure S1. Monitoring of the optimum enrichment status for isolating aptamers. PCR efficiency and C(t) values were measured using the MJ opticon monitor analysis software, version 3.1 (Bio-Rad, USA).

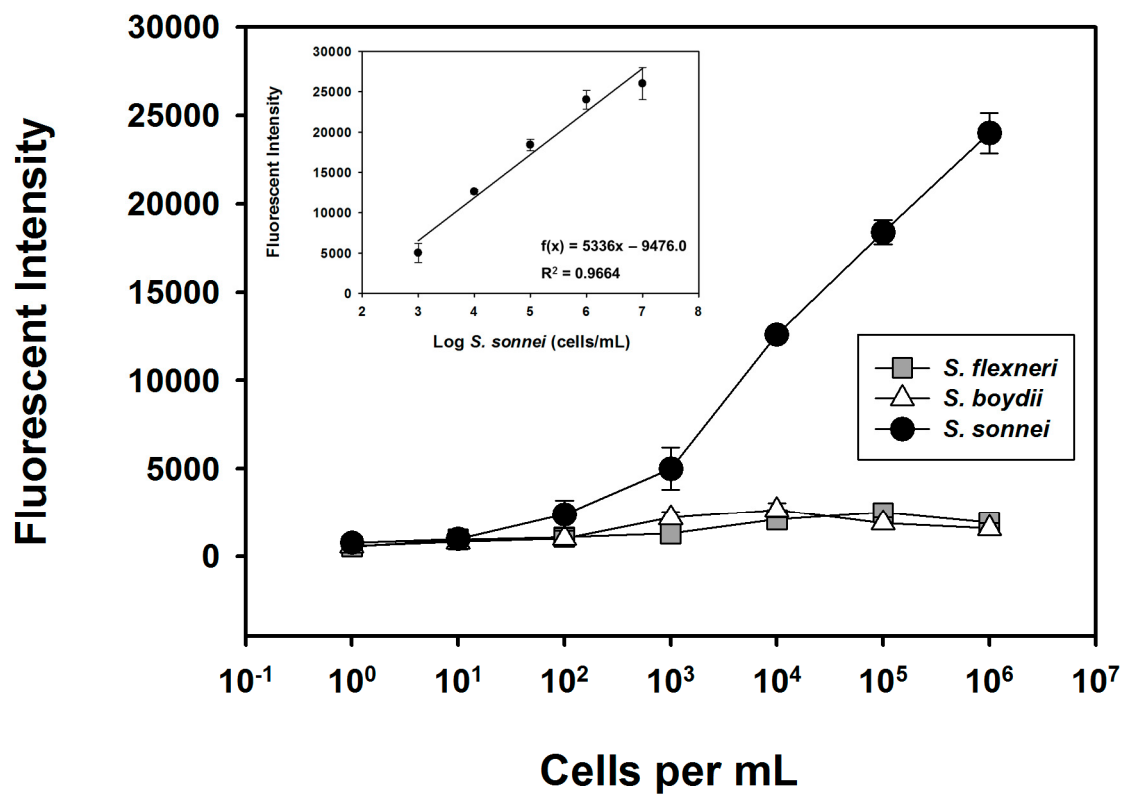


Figure S2. Sandwich binding was tested with different concentrations of *S. sonnei* ($10^0 \sim 10^7$ cells). Sandwich aptamer sensors bind specifically to *S. sonnei*.

Table S1. Sequence of the isolated aptamer candidates

Clone	Selected sequence	Size(bp)
SS-1	GGGCATGTGGACCTGCGATTTCGGTTTGGTGTGGTTGGGG	40
SS-2	CCCCATGTCTGTTTCTTTTAACAGGTAATCCGCCTTATGC	40
SS-3	CCATGGTCCCTCGTGTTTATTATGTTGTCTGAACTGGCTG	40
SS-4	CCACACATACCAAAAACACAGCACACTTCATCAATTTCACG	41
SS-5	CAGGACAAAAATTTCGGGAAGGCGGCCTTCCACTCTTTCTG	40
SS-6	ATACAGTGAAGGCCAGGAGGCAAATTCTAGGACGAAAGC	40
SS-7	CACCAAGTCGCCTCCTCTGCCCCATGTAAATCGTTACAT	40
SS-8	GAACAATTTACGCACACCGCGTAGATACCACCTCGTGCA	40
SS-9	CGACGAACTACACCACAGGCCCTTAACACATCTACTTGTA	40
SS-10	CATGCTAACTGCCATCACCCTATTATGATTCCATCCAT	40
SS-11	CGCAACACAGAAACACCCGTACACAAACAGTTTCAGCCCCG	40
SS-12	TGCGTAGTTCTCTTAACAACCATTACAGCGTATTTTCGTGG	40
SS-13	CAGGCACGAGTTCATCACACACCATAACAGTTCGTTACT	40
SS-14	CCACACCACACACTACACGCATAAAACCACGAAACTACAC	40
SS-15	GGGTATGTGGACTTGCGATTTCGGTTTGGTGTGGTTGGGG	40
SS-16	CATACAGTGGCCAGATTACCAACACACCTTCCATACGC	40
SS-17	CCACTCACATATTAACAACACCACATGAATATATTTTCG	38
SS-18	ACAGGGCATGTCTTCATCAACGCTTACCACACACCGCTCG	40
SS-19	CACTCATGCGCACCGCGTCGCACTTAATCAGTGTTGTGC	39
SS-20	GGGCATGTGGACTTGCGATTTCGGTTTGGTGTGGTTGGGG	40
SS-21	CAGACACACCAACGCACGGGCACACGCTACAAATGTAAGT	40