

Supplementary Tables legend

Tables S1. A. Information of single nucleotide polymorphism (SNPs) sites on the alignment of the reference and comparing *Salmonella bogori* strains. B. The position of single nucleotide polymorphism (SNPs) sites on the alignment of reference and comparing *Salmonella enterica* subspecies enterica serovar strains.

Table S2. Information of success rate with SNP-encompassing primers amplification.

Table S3. Information of target six *Salmonella enterica* subspecies enterica serovars, their amplified sequences with encompassing primers, alignments of amplified sequences, and searching SNPs on the alignment, and design SNP-based primers on the respective align genes.

Table S4. List of *Salmonella* serovar-specific single nucleotide polymorphisms (SNP)-based primers with respective genes used in this study.

Tables S5. A-B. A. Specificity test of newly designed SNP-based primers with reference six serovars. B. Final selection of *Salmonella* specific SNP-based primers

Supplementary Figs legend:

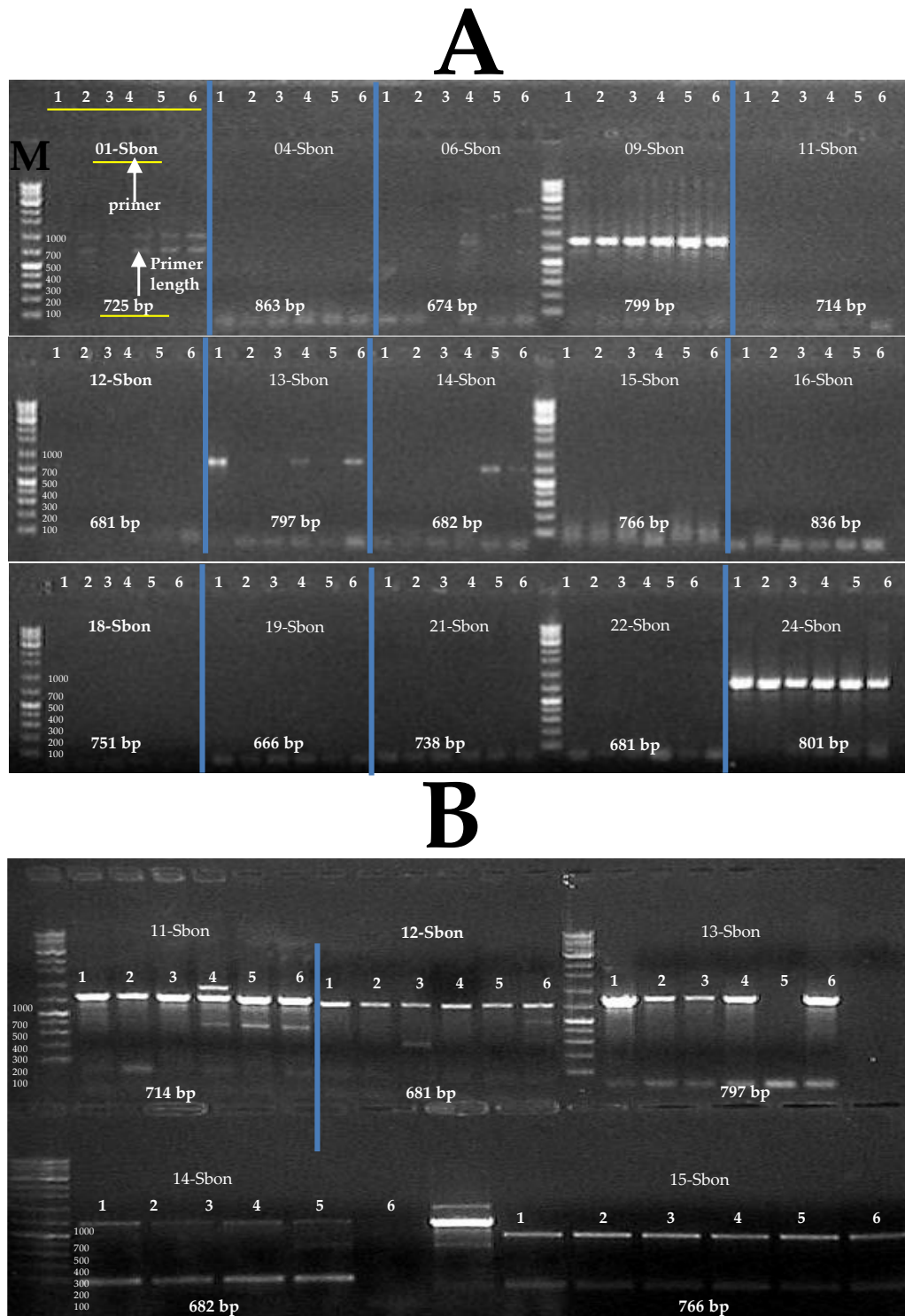


Figure S1. Desire single nucleotide polymorphisms (SNPs) encompassing PCR amplification of six target *Salmonella* with 15 primer sets. PCR band 'M' indicates DNA 100 bp marker. The gel lane numbers are provided in each section (1-6): lane No.1= *Salmonella enterica* subspecies *enterica* serovar Typhimurium (NCCP-14760); No.2= *S. e. Enteritidis* (NCCP-14545); No.3= *S. e. Agona* (NCCP-12231); No.4= *S. e. enterica* (NCCP-15756); No.5= *S. e. Typhi* (NCCP-14641); No.6= *S. e. Abony*. **A.** First PCR amplifies all 15 primer sets but fails to produce all primers with target band. **B.** Second PCR amplification with primers of 11-, 12-, 13-, 14- and 15-Sbon primer sets which did not produce the target band during the first PCR. The three (4-, 6- and 22-Sbon) primer sets could not produce any band during both PCR cycles. SNP-based target band length was indicated by a yellow color underline. Detailed sequence information is provided in table S3

