



Figure S1:Chemical composition and specific O-antigen modification genes of different serotypes of *Shigella flexneri*. All serotypes except 6 share a common O-antigen consists of repeating units of tetrasaccharide. Serotypes differ by the addition of either glucosyl or O-acetyl groups (2-O-acetyl, 3/4-O-acetyl and 6-O-acetyl), or PEtN to different sugars within the tetrasaccharide repeat unit via the linkages indicated. Specific O-antigen modification genes for different serotypes were indicated in parentheses