A simple and cost-effective DNA-preparation method suitable for high-throughput PCR quantification of hepatitis B virus genomes

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Supplementary Figures

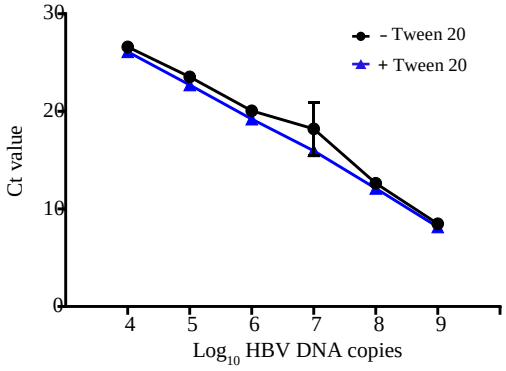
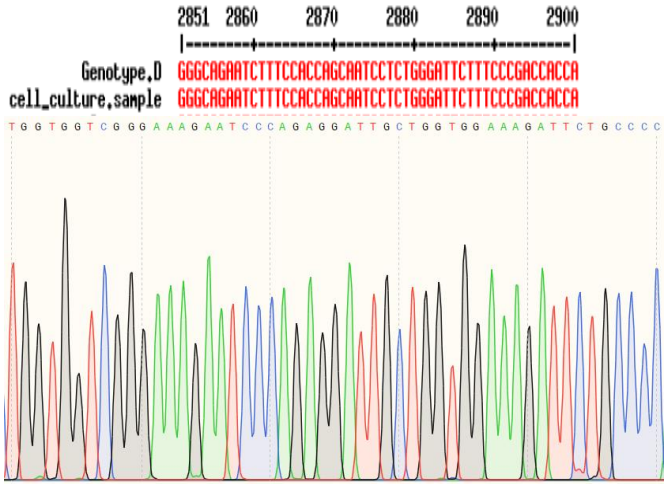


Figure S1. Effect of Tween-20 on qPCR. Standard curve of HBV plasmid DNA. DNA was quantified by qPCR analysis in the presence or absence of 5% Tween-20.

A



B

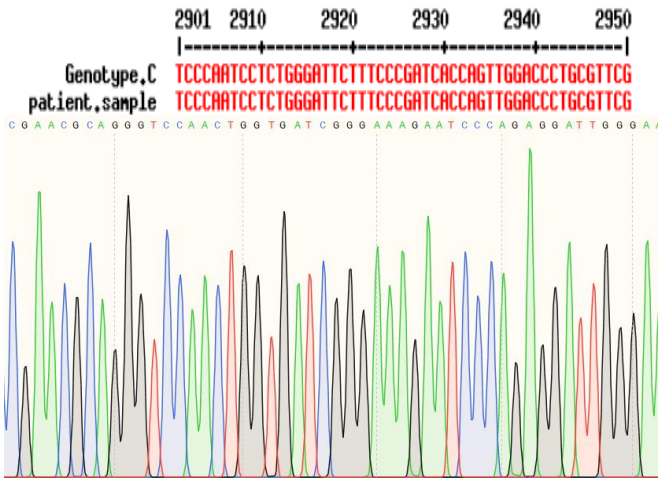


Figure S2. DNA sequencing of HBV DNA prepared using the column-free method. Chromatogram of DNA sequencing results from cell culture-derived HBV (A) and patient-derived HBV (B). HBV DNAs were isolated using a prep-free DNA preparation method, and the PreS1 through S genes were amplified using a Thermocycler Dice Touch (Takara Bio Inc., Shiga, Japan) with PrimeSTAR® HS Taq DNA polymerase (Takara Bio Inc., Shiga, Japan) as previously described [8]. Briefly, the pre-S1 through S regions were amplified using conserved universal primers (5'-TCACCATATTCTTGGGAACAAGA-3'and 5'-CGAAC CACTGAACAAATGGC-3'), and HBV genotypes were detected based on sequencing by Bionics (Seoul, Korea). An HBV-specific PreS primer [9] (5'-CCCTAGAAAATTGAGAGAAGTCCA-3') was used for sequencing. The sequences obtained were compared with published sequences covering the same genomic region of 8 HBV genotypes, as available in the National Center for Biotechnology Information GenBank.