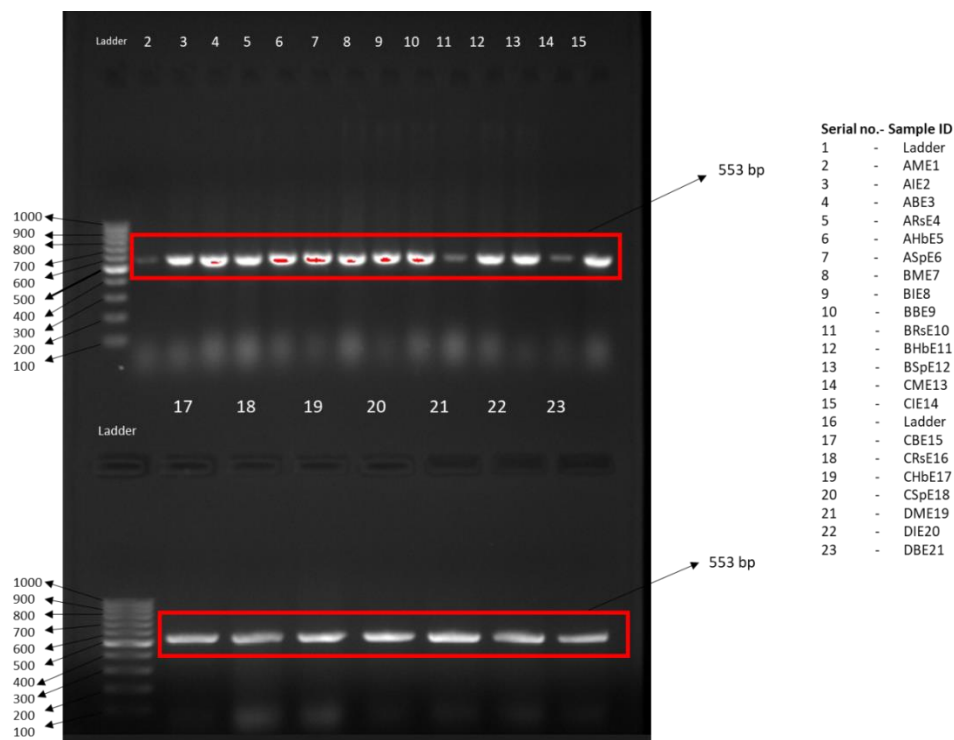


Supplementary Table -1. Result of Biochemical tests of avian pathogenic *E. coli* (APEC) isolates

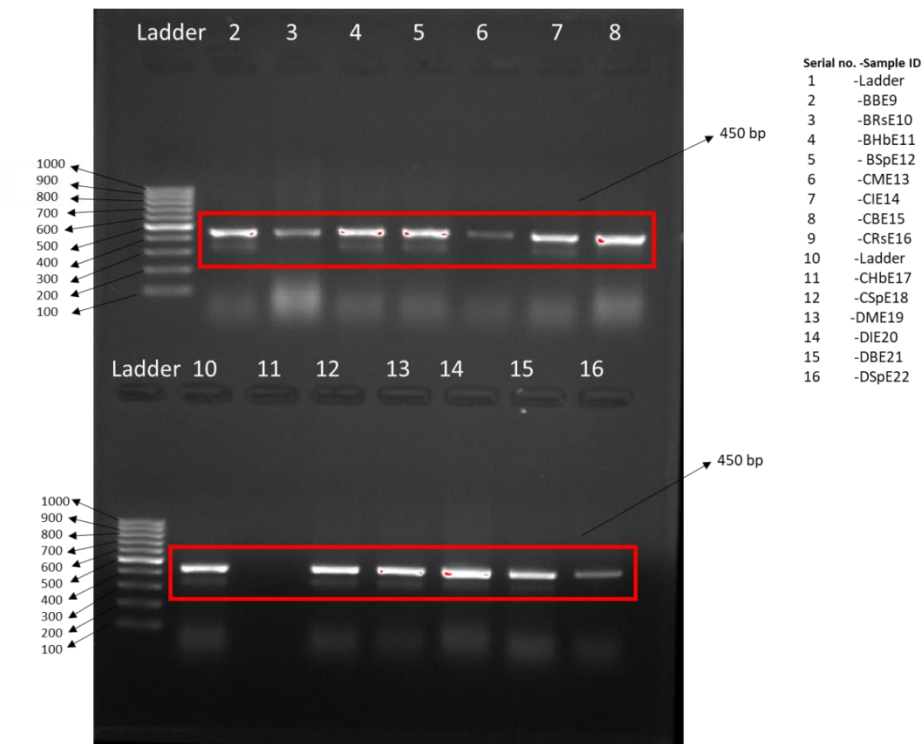
Sample ID	TSI				MIU			MR-VP		Citrate	Oxidase	Catalase
	Butt	Slant	H ₂ S	Gases	Motility	Indole	Urease	Methyl Red	Voges Proskauer			
AME1	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
AIE2	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
ABE3	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
ARsE4	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
AHbE5	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
ASpE6	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BME7	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BIE8	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BBE9	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BRsE10	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BHbE11	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BSpE12	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
BME13	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
CIE14	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
CBE15	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
CRsE16	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
CHbE17	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
CSpE18	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
CME19	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
DIE20	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
DBE21	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
DRsE22	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
DHbE23	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve
DSpE24	Yellow	Yellow	-ve	+ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	+ve

Detection of virulence genes

All 24 isolates showed positive result for *iroN* (553 bp) gene (Supplementary Figure 1.1), 22 isolates were found positive for the *hlyF* (450 bp) gene (Supplementary Figure 1.2), 20 isolates exhibited positive result for *iss* (323 bp) gene (Supplementary Figure 1.3), and 7 isolates were found positive for the *iutA* (302bp) gene (Supplementary Figure 1.4).



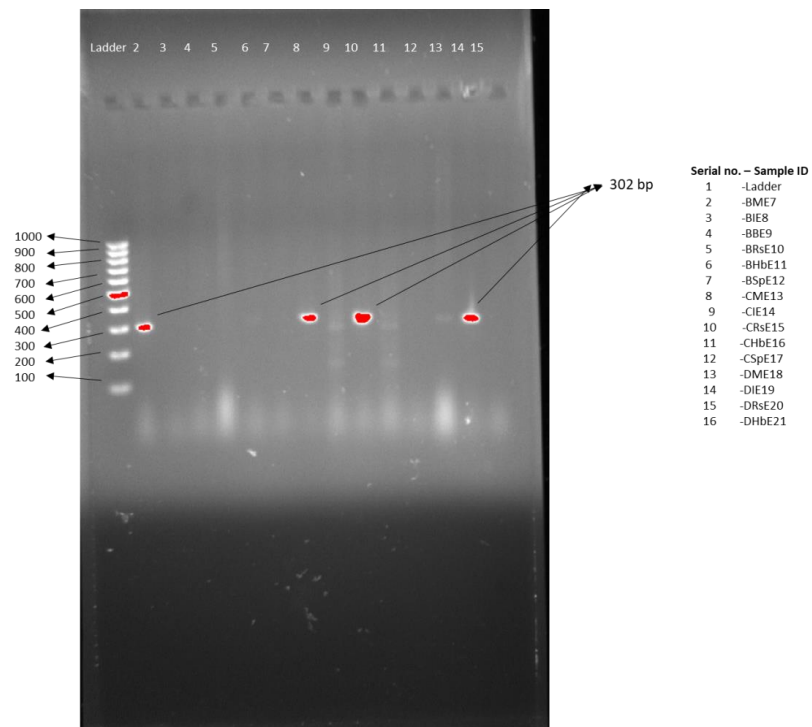
Supplementary Figure-1. 1. Agarose Gel Electrophoresis (1.5%) of PCR Products of *iroN* gene (553 bp) representative positive isolates.



Supplementary Figure-1.2. Agarose Gel Electrophoresis (1.5%) of PCR Products of hlyF gene (450 bp) representative positive isolates.



Supplementary Figure-1.3. Agarose Gel Electrophoresis (1.5%) of PCR Products of iss gene (323 bp) representative positive isolates.



Supplementary Figure-1.4. Agarose Gel Electrophoresis (1.5%) of PCR Products of iutA gene (302bp) representative positive isolates.