

JVDI: Supplementary material

Ngeleka et al. Frequency of *Escherichia coli* virotypes in calf diarrhea and intestinal morphologic changes associated with these virotypes or other diarrheagenic pathogens

Supplementary Table 1. Primers used in the PCR and colony hybridization by DNA probe, PCR conditions, and control strains for *Escherichia coli* virotypes.

Virulence gene	Function	DNA sequence (5'-3')	Amplified product (bp)	Annealing temperature (°C)	Reference strain	Reference
Adhesin						
<i>eae</i>	Intimin	For: CATTATGGAACGGCAGAGGT Rev: ATCTTCTGCGTACTGCGTTCA	790	55	ECL6611	1
<i>fli7</i>	F17a pili major subunit	For: TATCCTTGGAATACTGGCGG Rev: CCAGTGGTGTAATCCGTGTT	300	60	ECL13455	This study
<i>paa</i>	Porcine attaching and effacing associated adhesion	For: TCAGAACAATCTGCTCTGGCTA Rev: CACGTAGTCTGGCGCTATTTC	413	60	ECL6611	8
<i>papC</i>	Pilus assembly	For: TGATATCACGCAGTCAGTAGC Rev: CCGGCCATATTCACATAAC	501	55	ECL13421	4
<i>sfaA</i>	Type 5 fimbriae major subunit	For: CTCCGGGAGAACTGGGTGCATCTTAC Rev: CGGAGGAGTAATTACAAACCTGGCA	410	60	B94-279-174	7
<i>f5 (K99)</i>	F5 (K99) Fimbrial antigen	For: TGGGACTACCAATGCTTCTG Rev: TATCCACCATTAGACGGAGC	450	60	ECL13316	10
<i>tsh</i>	Temperature sensitive hemagglutinin (hemoglobin protease)	For: GGTGGTGCCTGGAGTGG Rev: AGTCCAGCGTGATAGTGG	640	55	ECL17088	3

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Toxin						
<i>cdtB-1</i>	Cytotolethal distending toxin I (b subunit)	For (a1): AAATCACCAAGAATCATCCAGTTA Rev (a2): AAATCTCCTGCAATCATCCAGTTTA For (s1): GAAAGTAAATGGAATATAAATGTCCG Rev (s2): GAAAATAAATGGAACACACATGTCCG	466	55	ECL9632	11
<i>cnf1/2</i>	Cytotoxic necrotizing factor 1/2	For: TCGTTATAAAATCAAACAGTG Rev: CTTTACAATATTGACATGCTG	446	55	ECL13421	4
<i>estA</i>	Heat-stable enterotoxin a (STa)	For: TCCCCTCTTTAGTCAGTCAACTG Rev: GCACAGGCAGGATTACAACAAAGT	163	55	ECL7805	9
<i>astA</i>	Enteroaggregative <i>E. coli</i> heat-stable enterotoxin 1	For: TCGGATGCCATCAACACAGT Rev: GTCGCGAGTGACGGCTTTGTAG	125	60	ECL7805	9
<i>stx1a</i>	Shiga-like toxin 1	For: TTAGACTTCTCGACTGCAAAG Rev: TGTTGTACGAAATCCCCCTCTG	530	55	ECL6611	12
<i>stx2a</i>	Shiga-like toxin 2	For: CTATATCTGCGCCGGGTCTG Rev: AGACGAAGATGGTCAAACG	327	55	ECL6611	12
Iron acquisition						
<i>iroN</i>	Novel catecholate siderophore N6-hydroxylysine synthesizing	For: AAGTCAAAGCAGGGGTTGCCCCG Rev: GACGCCGACATTAAGACGCAG	665	60	ECL18148	2
<i>iucD</i>	Enzyme in the aerobactin biosynthesis pathway	For: AAGTGTCGATTTTATTGGTGTA Rev: CCATCCGATGTCAGTTTTCTG	778	55	ECL17088	5
Invasin						
<i>afaD8</i>	Invasin AFA-8	For: GTTGAAGTCTTAATACCAAGTG Rev: TGAGCATTCTCCGCTAACTGATAAT	354	60	B94-791-177	6

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