

Title: *Escherichia coli* individual antimicrobial resistance prevalences

Data Filename: PLOS_ecindividualprev.22OCT2015.xls

Data File Description: Data were collected as part of a study on antimicrobial resistance among isolates of *Escherichia coli* collected from beef feedlot cattle. Data in this data file include antibiotic resistance data for each individual isolate. Resistance data is coded as 0/1 for 19 different antimicrobial drugs, sorted by assay (disk diffusion and/or broth microdilution). A key to the data is provided as the second tab in the Excel file.

Related Data Files: Associations between *Escherichia coli* isolate antimicrobial resistance and antimicrobial usage - PLOS ASSOCIATION DATASET.22OCT2015.xls

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Date of Data Collection: cattle enrolled in study September 2007-January 2010

Geographic location: *Escherichia coli* was isolated from the feces of beef cattle located on four commercial feedlots in Alberta, Canada

Data File Created: 20151022

Methods: *Escherichia coli* was isolated from the feces of beef cattle from four commercial feedlots in Alberta, Canada. Each individual was sampled twice, once upon arrival to the feedlot, and again at ≥ 33 days on feed (DOF). A total of 2,725 isolates were collected from 923 individuals. Antibiotic susceptibility of these isolates to 19 different antimicrobial drugs was determined by broth microdilution and/or disk diffusion assay. Prevalence of resistance to each drug, by sampling time, was calculated (see Figure 2 in associated publication). Data used for determination of prevalences are reported in this database. See associated publication for additional methodological details.

Recommended Citation: Antimicrobial resistance in *Escherichia coli* recovered from feedlot cattle and associations with antimicrobial use. Katharine M. Benedict, Sheryl P. Gow, Tim A. McAllister, Calvin W. Booker, Sherry J. Hannon, Sylvia L. Checkley, Noelle R. Noyes, and Paul S. Morley. In review at PLoS One.

Funding Sources: Advancing Canadian Agriculture and Agri-Food (ACAAF) Program (funding 2006-2011), Alberta Beef Producers (Project #0007-038RDB, funding 2006-2008), Canadian Cattlemen's Association Beef Cattle Research Council (Project # BCRC 6.41, funding 2006-2008), Public Health Agency of Canada