Draft genome sequences of two commensal Enterococcus cecorum strains isolated from chickens in Belgium

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Here, we report the draft genome sequences of two commensal *Enterococcus cecorum* strains (1710s23 and 1711s24), cultivated from the ceca of healthy laying hens originating from different farms in Belgium.

**Enterococcus cecorum** is a normal inhabitant of the gastrointestinal flora of mammals and birds (1). It is the most frequently occurring enterococcal species in the intestine of adult chickens (2). Recently, several *E. cecorum*–related clinical cases in poultry have been reported worldwide (3–6).

Here, we report two draft genome sequences of commensal *E. cecorum* strains that were isolated from the ceca of 2 laying hens from different farms in Belgium. The chickens were submitted in August 2009 to the Department of Pathology, Bacteriology, and Avian Diseases, University of Gent. Birds did not show clinical signs or necropsy findings associated with disease. *E. cecorum* was not isolated from any of the extraintestinal organs. For each bird, cecal content was collected aseptically and plated on sheep blood agar supplemented with colistin and nalidixic acid (Biomedia, USA). Colonies were isolated from blood agar plates and purified by subculturing. *E. cecorum* isolates were assigned as control (intestinal) isolates and used for comparison studies (8). PFGE (Pulsed Field Gel Electrophoresis) revealed a large genetic diversity of *E. cecorum* from noninfected control chickens (8).

Genomic DNA of *E. cecorum* strains 1710s23 and 1711s24 was extracted using the DNeasy blood and tissue kit (Qiagen, USA). DNA quantity and quality were assessed using Nanodrop spectrophotometry (Thermo Scientific, USA). Genomes were sequenced by Genome Automatic Annotation Pipeline (PGAAP, http://www.ncbi.nlm.nih.gov/genome/annotation_prok) (10) for annotation. The 1710s23 genome is estimated to contain 2,247 genes (12 rRNAs, 48 tRNAs) and 2,099 expected protein-coding sequences (CDSs). The 1711s24 genome contains 2,295 genomic features consisting of 2,143 CDSs (predicted), 46 tRNAs, and 10 rRNAs. No virulence factors were found by using the VirulenceFinder version 1.4 server (11).

To the best of our knowledge, this is the first genome report of commensal *E. cecorum* isolated from commercial laying hens in Europe. The data reported here may be useful in the investigation of genome variability of *E. cecorum* and for future comparative genomic studies on the pathogenicity of *E. cecorum*.

**Nucleotide sequence accession numbers.** The whole-genome shotgun projects have been deposited at DDBJ/EMBL/GenBank under the accession numbers LDOW00000000 (1710s23) and LDOX00000000 (1711s24). The versions described in this paper are the first versions, LDOW01000000 and LDOX01000000, respectively.

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**REFERENCES**


