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Occurrence and molecular characterization of *Cryptosporidium* spp., *Giardia duodenalis*, and *Enterocytozoon bieneusi* from Tibetan sheep in Gansu, China

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Abstract

Cryptosporidium spp., Giardia duodenalis, and Enterocytozoon bieneusi are globally ubiquitous pathogens. However, little is known about the occurrence and distribution of Cryptosporidium spp., G. duodenalis, and E. bieneusi in Tibetan sheep. In the present study, fecal specimens of 177 Tibetan sheep were examined by nested PCR. 4.5% (n=8), 1.7% (n=3) and 34.5% (n=61) of the Tibetan sheep were positive for Cryptosporidium spp., G. duodenalis, and E. bieneusi, respectively. Cryptosporidium ubiquitum was the only species found by small subunit (SSU) rRNA-based PCR, and subtyping of C. ubiquitum (n=6) by 60-kDa glycoprotein (gp60) revealed that all positive isolates belonged to zoonotic XIIa subtype 2. Multilocus genotyping at the

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