**Highlights**

1. We reported the vaginal bacterial microbiota of the *Asinina de Miranda* jennies.
2. Bacterial species isolated were predominantly gram-positive organisms.
3. Diverse bacteria microbiota found that didn’t differ much among the jennies with and without reproductive problems.
4. Isolates of *S*. *zooepidemicus* from jennies with reproductive problems had several genes encoding virulence factors.