



## Isolation and Identification of Aerobic vaginal Bacteria and Fungi from Adult Cows in AL- Kufa district/ Al-Najaf province-Iraq

Hella J. Al-Fatllawy

College of Veterinary Medicine / University of Kufa

### ARTICLE INFO

**Received:** 15.05.2014

**Revised:** 20. 06.2014

**Accepted:** 29.06.2014

**Publish online:** 12. 07.2014

**\*Corresponding author:**

**Email address:**

[halaj.kadhim@uokufa.edu.iq](mailto:halaj.kadhim@uokufa.edu.iq)

### Abstract

**Fifty-six cows** were examined in this study. Clinical vaginitis was appeared on 19 out of 56 cows with incidence rate 33.92% . Vaginal swabs

were collected from the posterior area of the vagina from all animals for microbiological isolation (bacteria and fungus). Totally, 95 and 42 bacterial isolates were isolated from intact vagina and cows with vaginitis respectively. The isolates from the normal vagina were *E. coli* 22.1% followed by *Staph. Spp.*, *Proteus Spp.*, *Pseudomonas Spp* and *Neisseria* with incidence rate 18.94%, 9.47%, 9.47% and 3.15% respectively. However, in cows suffered from clinical vaginitis, *Staph. Spp.* recorded the highest percentage 26.19% followed by *Staph aureus*, *E. coli*, *Proteus* and *Pseudomonas Spp.* 21.42 %, 11.9%, 9.52% and 9.52 % respectively while *Neisseria* was a lowest percentage 2.38%. The mycoflora that isolates from intact vagina were *Aspergillus spp.*, *Mucor spp.* and *Penicillium spp.* with incidence rate 16.21%, 2.7% and 13.51% respectively. While, *Penicillium* with incidence rate 36.84% was the only fungal isolate, which were isolated from the cow with vaginitis.

**To cite this article:** Hella J. Al-Fatllawy. (2014). Isolation and Identification of Aerobic vaginal Bacteria and Fungi from Adult Cows in AL- Kufa district/ Al-Najaf province-Iraq. MRVSA. 3 (2), 19-23.

DOI: [10.22428/mrvsa.2307-8073.2014.00323.x](https://doi.org/10.22428/mrvsa.2307-8073.2014.00323.x)

**Keywords:** Vaginal flora, aerobic bacteria, fungi, clinical vaginitis, cow.