

IDENTIFICATION OF ASTROVIRUS IN RABBITS BY MOLECULAR DIAGNOSTICS, IN THE SOUTH-EAST OF MEXICO STATE.

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ABSTRACT

The astroviruses form a family of small RNA viruses that about measure of 28 to 30 nm, infect a variety of mammalian and avian hosts. First identified in human stool samples in 1975, these viruses were named after their star-shaped appearance in some electron micrographs. Are known as causing agents of severe gastroenteritis in mammals and fowls.

In rabbits cause signology as enteritis, enterocolitis, lethargy, inflammation and diarrhea followed by the death of the animal, also related to a heavy intestinal coccidial, *Eimeria* spp specifically of also mucoid enteropathy with cecal impaction. Again the ambient may alter the physiology, favoring the presence of this virus getting the production reduced and have an important economics loss. This virus is considered zoonotic, however the ecological interrelation between human astrovirus and other viruses of other species has not been well defined.

The rabbit production is a nationwide activity boost, but in the Mexico State, there aren't reports of the presence of this virus, or any economic losses caused, the objective of the present study is implement the RT-PCR technique for the diagnostic of astroviruses in rabbits, the Viral RNA will extract by using the GeneJET viral DNA and RNA Purification Kit of Thermo Scientific according to the manufacturer's instructions.

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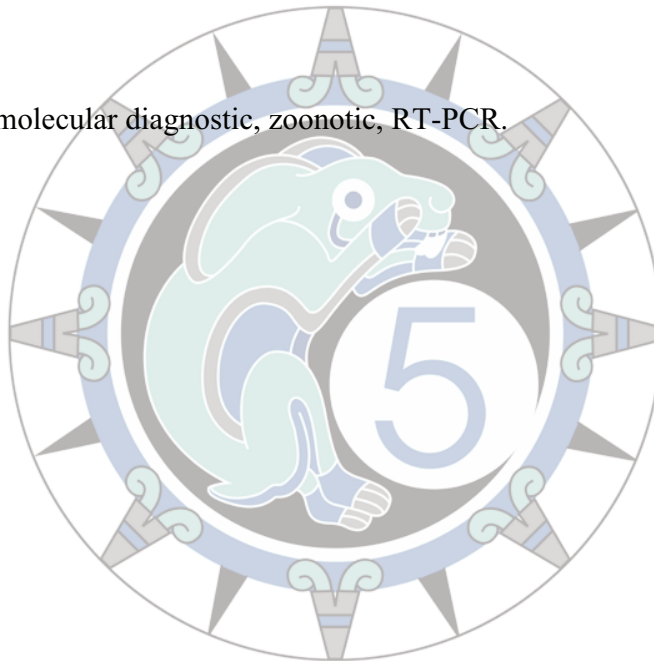
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The samples from collection are use for an initial screening with a broadly reactive primer pair, targeted to the ORF1b region of AstV (Lavazza, et al. 2009). The initial screening will be in a farm of rabbits that present animals with signology as enteritis, enterocolitis, lethargy, inflammation and diarrhea. The results of this study will used for perform the identification and phylogeny, thereby will be able to developed programs of prevention and include it in the diagnosis, reduce the loss of animals from this pathology and significantly reduce economic losses.

Keywords: Astrovirus, molecular diagnostic, zoonotic, RT-PCR.



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