

Abstract:

The *Haemonchus* is importance worm in digestive system of ruminants and easily detected in dissection. In idiomly called big stomach worm, wire worm, barber pole worm and in the Persian language called Qazel-qurt.

The genus of *Haemonchus* for desirable growth needed to intense rain, wet and heat and if this three factors were in the place may be we detect the *Haemonchus*. So this parasite is very importance in the tropical and subtropical regions.

In Iran infection with *Haemonchus* was reported from sheep, goat, cattle and camel. Each of *Haemonchus* suction 0.5 cc blood daily or fofeit from sores that was caused; As anaemic and weightless access.

As for economic and hygienic problems that occure by *Haemonchus* cause and morphological differentiation between *Haemonchus* species and polymorphisms in various species that can dull climate factor, persent study performed for first time targeted determination assence of ITS-1 and ITS-2 sequences in 10 of *Haemonchus* of sistans' ruminants.

Examples washed in the Salin buffer and until DNA extraction reserved in ethanol 70%. The nematodes were exited from ethanol before DNA extraction and parched; Than they were washed with aquapura and reserved in 1.5 ml tubes at -20 °c for 2 days. All of DNA genomes wew extracted by MBST kit on column technique, according to its instruction. ITS r DNA, 5.8 s, 28 s and 18 s sequences was duplicationed beneficial PCR and primers (MF and MR). Aftar PCR, electrophoresis done on the agarose gel (1.5 %) and then coloured with ethidium bromide Therefore PCR product viewed by 975 bp length and send to the Pishgam association for sequencing.

Final sequences were valued by using the chromas and MEGA7 softwares by other sequences of Iran and several locations in world.

Phylogenic tree traced by MEGA7 software by Neighbour-joining technique. ITS-1 and ITS-2 sequences compared by billed examples in the gen-bank, and we knew that slightly example is *Haemonchus placei*. ITS-1 sequence was similar to a example from the USA & India and ITS-2 sequence was similar to examples from the Brazil, France and Australia.

Key-words: *Haemonchus* – Sistan region – ITS-1 and ITS-2 sequences.



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