Feed Consumption, Carcass Evaluation and Growth performance of Broilers Rabbits Fed Different Levels and Processing Methods of Milk Thistle (Silybum marianum) Supplement

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12 ABSTRACT

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14 Milk thistle (Silybum marianum) belongs to the family Asteraceae which are widely spread in arid and 15 semi-arid areas of Mediterranean regions. An annual plant contains silymarin-flavolignans with hepatoprotective and canceroprotective properties which shows the positive results to improve health 16 17 and performance of animals. The study aimed to investigate the effect of different level and processing methods of milk thistle (Silybum marianum) on feed consumption, carcass evaluation and growth 18 performance of broiler rabbits. A total of 180 HYLA broiler rabbits, 42 days old, were fed with 19 different concentrations of milk thistle supplement - group III (0.5 % of fermented milk thistle) and 20 21 group II (1% non-fermented milk thistle) in comparison with control group I (standard feed ration 22 without any supplementation). Feed and water were available ad libitum. Each experiment started at 23 42 days of rabbit age and finished by slaughter when rabbits achieved 2.6 kg of live weight. The 24 weight of the body parts, carcass weight, carcass yield, and growth performance were recorded and calculated. Carcass weight and carcass yield in rabbits fed with 0.5 % fermented milk thistle were 25 26 significantly higher (P<0.05) than in rabbits of other groups. However, there were no significant 27 differences (P>0.05) between control and experimental groups in the growth performance. 28 Furthermore, daily feed consumption was higher in the treatment group II and group III compared to

- 29 Control I (P<0.05). The results of this experiment therefore indicated that 1% non-fermented milk 30 thistle extract supplemented in the feed ration for broiler rabbits could not be a suitable supplement for 31 improvement of the broiler rabbits' performance. However, 0.5% fermented milk thistle could be used 32 to improve the carcass performance.
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- 34 Keywords: milk thistle, broiler rabbits, fermented feed, performance.