

动物科学

鸡喹乙醇中毒对血中自由基水平及抗氧化系统的影响

高洪¹, 浦雪艳², 彭轲³, 彭洁¹

1. 云南农业大学, 云南 昆明 650201;
2. 上海开拓者生物科技发展有限公司, 上海 浦东 201203;
3. 四川大学, 四川 成都 610064

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摘要 对鸡喹乙醇中毒时, 血中自由基(MDA)及抗氧化系统的变化进行了研究; 艾维因鸡随机分为两组, 正常对照组(I组), 饲喂基础日粮; 喹乙醇处理组(II组), 饲喂基础日粮, 且以 15 mg 喹乙醇/kg体重处理II组, 连续处理42 d, 每天1次, I, II组每7 d采血1次, 共采血6次, 测定MDA及抗氧化系统各指标水平; 结果: 第2~6次II组MDA水平明显高于I组($P<0.05$, $P<0.01$), 而II组T-AOC, GSH, T-SOD, CAT, GST, GSH-PX水平明显低于I组($P<0.05$, $P<0.01$)。第1次各指标在I, II组间无显著性差异($P>0.05$)。鸡喹乙醇中毒时可引起血中自由基水平(MDA)明显升高, 而抗氧化系统各指标水平明显下降。

关键词 [鸡](#); [喹乙醇中毒](#); [自由基](#); [抗氧化酶](#); [影响](#)

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The Effect of Olaquinox Poisoning on Free Radical and Anti-oxidative System in Chicken Blood

GAO Hong¹, PU Xue-yan², PENG Lu³, PENG Jie¹

1. Yunnan Agricultural University, Kunming 650201, China;
2. Shanghai Bioexplorer Co., Ltd., Shanghai 201203, China;
3. Sichuan University, Chendu 610064, China

Abstract

The changes of free radical (malondialdehyde, MDA) and anti-oxidative system in chicken blood during olaquinox poisoning were achieved. Aiweiyin chickens were divided randomly into 2 groups: the chickens of Control group (group I) were only fed on basic diet, and those of olaquinox -treated group (group II) were administrated by 15 micrograms olaquinox per kilogram body weight besides being fed on basic diet, olaquinox was orally given once per day with total times, blood was sampled 6 times with once per 7 days for detection of MDA and anti-oxidative indexes. At the 2nd to 6th detection, MDA of group II was significantly higher than that of group I ($P<0.05$, $P<0.01$), and all anti-oxidative indexes (T-AOC, GSH, T-SOD, CAT, GST, GSH-PX) of group II were remarkably lower than those of group I ($P<0.05$, $P<0.01$, no differences existed in group I and group II at the 1st detection ($P>0.05$). Chicken olaquinox poisoning can results in remarkable increase of blood MDA and significant decrease of anti-oxidation indexes.

Key words [Chicken](#) [olaquinox poisoning](#) [free radical](#) [antioxidase](#) [effect](#)

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通讯作者 高洪

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