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Acta Medica Iranica

2009;47(4) : 126-130

"PRELIMINARY SCREENING FOR THE LEVELS OF TESTOSTERONE HORMONE IN THE MARKET MEAT IN TEHRAN "

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Abstract:

Many xenobiotic and natural compounds such as testosterone have been used and sometime misused to improve the growth of cattle and other livestock animals. In order to control the testosterone hormone residues in meat and to ensure the safety of Iranian consumers, a monitoring system must be put in place to address the concerns. The present study was undertaken to detect and quantify the levels of testosterone residue in the market meat. Cattle meat samples were collected randomly from the market in Tehran. A total of 120 samples of cattle meat were analyzed for the level of testosterone by Enzyme-linked immuno sorbent assay (ELISA) method. The average experimental value of testosterone in cattle meat was 810.9 ng/kg. The average value of cattle meat testosterone was significantly upper than FDA (Food and Drug Administration) allowable level but was in agreement with the values proposed by JESFA (Joint Expert Committee on Food Additives). So it seems that the present status of this anabolic hormone in market meat is not at risk but there is need to routinely monitor this chemical as a food quality control measure.

Keywords:

Cattle meat

TUMS ID: 3621

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