

Determination of Antibiotic Residues in Carcasses of Cows Slaughtered in Amol City by Four-Plate-Test Method

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Abstract : For determination of antibiotic residues in slaughtered cow carcasses of Amol city in Iran, sampling has done from 100 heads of cow. For this purpose, the microbiological F.P.T (Four-Plate Test) method was used. Basis of this method, a clear zone is creating around the leachate on the plate that already has cultured a uniform layer of under test bacteria on agar plate. In this study from 100 heads of cow carcasses, at least 75 cases (75%) in one of the tested organs (muscle-liver-kidney) have been antibiotic residues. Also, it has been found that kidney have the most positive cases (60%) than other organs (liver and muscle), then the liver (58%) and finally are muscles (51%).

Keywords : antibiotic residues, agar plate test, cow carcass

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