

# Pharmacokinetic study of long-acting oxytetracycline in cows Estudio cinético de oxitetraciclina de larga acción en bovinos de lechería

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Pharmacokinetics of a long-acting formula of oxytetracycline (OTC) in one formulation of dymetylacetomide, was studied in seven-cows after i.m. administration (20 mg/kg of body weight). Serum OTC concentration was measured using a microbiological assay procedure with a sensibility of 0.312 µg/ml. The mean residence time (MRT) was  $20.68 \pm 5.55$  h and the half life was  $9.63 \pm 4.04$  h. The maximal OTC concentration ( $7.53 \pm 2.20$  µg/ml) was observed after  $8.42 \pm 2.43$  h. Serum concentration > 1 µg/ml was maintained for about  $39.57 \pm 13.15$  hours.