

RABBIT SLAUGHTER HYGIENE: EVALUATION OF PROCESS HYGIENE CRITERIA FOR THE SUPPOSED FOOD CATEGORY CARCASSES OF RABBIT

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Rabbit, being part of the category of lagomorphs, is defined by Regulation 853/2004 as "meat from rabbits and hares, as well as meat from rodents" and included in Chapter IV (Slaughter hygiene) in which the inspection of rabbit meat is regulated, in relation to the hygienic methods of slaughter and ante and postmortem requirements [1]. However, this commodity is not considered in Regulation 2073/2005 as process hygiene criteria related to meat and products thereof [2]. This study presents data, in relation to carcasses of rabbit, on aerobic plate count, Enterobacteriacae, Pseudomonas spp. counts and for the presence of Listeria monocytogenes, Salmonella spp. and Campylobacter spp.. A total of 89 samples were collected by Veterinary Authority in an industrial slaughterhouse located in Forlì during 15 different days of slaughtering. For each day of sampling, 5 carcasses (from the same slaughtered batch) and one sample of washing liquid were collected before chilling and after skinning, respectively. Results showed a level of contamination for aerobic colony count and Enterobacteriacae respectively in the range from 2.00 to 5.28 (mean 3.30, SD 0.85) and from 0 to 3.85 (mean 1.50, SD 0.98) Log CFU/cm2, with statistically significant differences between the different days of slaughtering. Pseudomonas spp. were isolated in 27.40% of carcasses with a contamination level ranging between 0.12 and 2.67 Log CFU/cm2. No pathogenic bacteria were detected in all the examined carcasses and washing liquid samples. Few data were available in literature on microbiological quality and safety of rabbit carcasses and meat and in comparison to those a lower level of contamination was observed in our study. Even if comparisons with hygiene criteria established for other mammalian species could be not considered appropriate, a total of 6.85%, 20.55% and 15.07% of the carcasses with contamination levels >4.9 Log CFU/cm2 for aerobic colony and >2.4 and 2.9 Log CFU/cm2 for Enterobacteriacae were identified, respectively, considering a level of contamination reduced of 1/5 as proposed for non-destructive sampling by Conferenza Stato Regioni 41/2016 [3]. Given our results, the affinity with poultry slaughtering could not be supported, at least for the process hygiene criteria for *Campylobacter* spp.. Further analysis in several industrial slaughter plants are necessary to formulate process hygiene criteria potentially applicable to rabbit slaughtering.

[2] REGULATION (EC) No 2073/2005. Official Journal of the European Union L 338/1.

[3] 41/CSR del 3 marzo 2016: Linee guida relative all'applicazione del Regolamento (CE) n. 2073/2005 e

successive modifiche ed integrazioni sui criteri microbiologici applicabili agli alimenti. Conferenza

Permanente per i rapporti tra lo Stato, le Regioni e le Province Autonome di Trento e Bolzano

^[1] REGULATION (EC) No 853/2004. Official Journal of the European Union L 139/55.