Title	Effect of acidified sodium chlorite treatment on chicken carcases processed in South Australia
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Abstract

A trial on the effectiveness of acidified sodium chlorite (ASC) on *Salmonella* and *Campylobacter* was undertaken on chicken carcases after they exited the screw chiller of a commercial premises in Adelaide, Australia. On untreated carcases mean \log_{10} total viable count (25 °C) was 2.78/cm² compared with 1.23/cm² on treated carcases. Prevalence of *E. coli, Salmonella* and *Campylobacter* was 100%, 90% and 100% respectively, on untreated carcases and 13%, 10% and 23% respectively, on treated carcases. The distributions of *E. coli, Salmonella* and *Campylobacter* (mean \log_{10} of positive samples) from untreated carcases were 1.55, -1.80 and 1.59/cm² respectively, and -0.64, -1.85 and -2.21/cm² respectively, on treated carcases. On untreated carcases *S.* Sofia and *S.* Infantis were isolated from 73% and 37% of carcases, respectively; only *S.* Sofia was isolated from treated carcases. The significant reductions in both prevalence and concentration demonstrated in the present trial indicate that ASC is a risk management option immediately available to the poultry industry.