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High-Resolution Melt Curve PCR Assay for Specific Detection of *E. coli* O157:H7 in Beef

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Highlights

A high resolution melt curve PCR was developed for specifically detecting *E. coli* O157:H7.

This assay avoided false negative and false positive results.

A 5-8 h enrichment time allowed for detection of 10 CFU/g in 325 g beef.

Immunomagnetic separation allowed for more specific capture of *E. coli* O157:H7.

E. coli O157:H7 in beef was confirmed using Rainbow agar and serological testing.

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