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Title: Identification, Characterization, Immunolocalization,
and Biological Activity of Lucilin Peptide

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Running title

Lucilin: “Host Defense Peptide from *Lucilia eximia*”

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Highlights

- A cecropin-like peptide genetic sequence, tissue production, and secretion in *Lucilia eximia* is reported.
- The Lucilin peptide is active against *E. coli* DH10B and clinical isolates of *E. coli* ESBL and *Enterobacter cloacae* with no toxic activity on human erythrocytes and Vero cells.
- The Lucilin peptide showed neutralizing activity against the TNF- α production in PBMCs stimulated with LPS and induce cellular migration on human keratinocytes.

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