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Citrus fruit extracts with carvacrol and thymol eliminated 7-log acid-adapted *Escherichia coli* O157:H7, *Salmonella typhimurium*, and *Listeria monocytogenes*: A potential of effective natural antibacterial agents



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RUNNING TITLE: PATHOGEN ELIMINATION IN CITRUS FRUIT EXTRACTS

Citrus Fruit Extracts with Carvacrol and Thymol Eliminated 7-log Acid-Adapted *Escherichia coli* O157:H7, *Salmonella* Typhimurium, and *Listeria monocytogenes*: A Potential of Effective Natural Antibacterial Agents

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KEYWORDS: citrus fruit extract, carvacrol, thymol, synergistic antibacterial effect, acid-adaptation, foodborne pathogen

CHEMICAL COMPOUNDS STUDIED IN THIS ARTICLE Carvacrol (PubChem CID: 10364); Thymol (PubChem CID: 6989)

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