

ABSTRACT

Prospective of Red Passion Fruit (*Passiflora edulis* Sims.) as a Source of Resistant Multistrain Probiotics Against Erythromycin

Literature Review

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Red passion fruit has good nutrition for the growth of probiotic culture. According to WHO, one of the characteristics of probiotics is its resistance to antibiotics. This review aims to determine strain of probiotics in red passion fruit that are resistant to erythromycin. Probiotic bacteria resistance to erythromycin is influenced by resistance genes, the most frequently found is *erm* (B). The number of literature reviewed was 14 literature. The result obtained, several studies have isolated bacteria from various types of passion fruit, such as strains of *Lactobacillus heterohiochii*, *Lactobacillus bulgaricus*, *Lactobacillus plantarum*, and *Wiessella cibria*. The greatest resistance of LAB strain to erythromycin was observed in *Lactococcus spp.* then *Lactobacillus spp.*, and *Streptococcus spp.* Bacteria strains of *L. plantarum* showed the greatest level of resistance to erythromycin, followed by *L. bulgaricus*, and *Weissella cibaria*. Therefore, probiotic bacteria found in red passion fruit (*Passiflora edulis* Sims.) are multi strains and potentially resistant to erythromycin.

Keywords: Passion Fruit, Probiotic, Resistance, Erythromycin.