

THE PROFILE OF RED DRAGON FRUIT EXTRACT AS A NATURAL ANTIMICROBIALS IN REDUCING E. coli

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ABSTRACT

Red dragon fruit is a type of fruits that are widely consumed by the people of Indonesia because the content is very beneficial for health. Utilization of fruit is still the most part of the fruit, but red dragon fruit peel is still much discarded and untapped. The purpose of this research is to know the profile of red dragon fruit peel and its inhibitory activity in decreasing contamination of E. coli. This research is divided into two stages namely the phase of fruit peel extraction and the phase of inhibitory testing against contamination of E. coli bacteria. Red dragon fruit peel extract produced is a light brown, odorless, less viscous, and has a pH of 5.2. The test results produced inhibition against E. coli contamination at concentrations of red dragon fruit peel extract red 10%, 25%, 50%, 75%, 100%, respectively 3.58 mm, 3.97 mm, 4.95 Mm, 6.95 mm, and 9.30 mm. With these data, the inhibitory power of the red dragon fruit peel is still classified into the medium antimicrobial category.

KEYWORDS : Antimicrobial, Inhibition, Echerichia coli, Red dragon fruit peel.

INTRODUCTION

Indonesia has potential fruits that are very potential especially red dragon fruit. Red dragon fruit is a fruit of the Cactaceae tribe, which began to be widely consumed in Indonesia.