<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Penentuan Kemurnian Adenovirus Menggunakan Kromatografi Cair Kinerja Tinggi</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2</td>
<td>Validasi Metode Headspace-Gas Chromatography-Mass Spectrometry untuk Analisis Multiresidu Pestisida Organofosfat Pada Sayuran</td>
<td>6 - 14</td>
</tr>
<tr>
<td>3</td>
<td>Penggunaan Zat Pendestruksi pada Cara Wet Ashing untuk Analisis Timbal dalam Sari Buah Kaleng dengan Metode Spektroskopi Absorpsi Atom</td>
<td>15 - 19</td>
</tr>
<tr>
<td>4</td>
<td>Aktivitas Antimikroba dan Analisis KLT-Densitometri Metabolit Fraksi &amp; Fraksi Ekstrak Endofit dari Aglaia odorata</td>
<td>20 - 27</td>
</tr>
<tr>
<td>5</td>
<td>Pengaruh pH Eluen terhadap Hasil Desalting Crude Pertussis Toxin (PT) dan Filamentous Hemagglutinin (FHA) dari Bordetella Pertussis</td>
<td>28 - 35</td>
</tr>
<tr>
<td>6</td>
<td>Daya Hambat Kombinasi Susu Probiotik (Lactobacillus acidophilus + Lactobacillus bulgaricus) dan Pasta Tomat terhadap Escherichia coli Dan Staphylococcus aureus</td>
<td>36 - 41</td>
</tr>
<tr>
<td>7</td>
<td>Prospektif Kombinasi Susu Probiotik Lactobacillus acidophilus Dan Bifidobacterium bifidum sebagai Sediaan Anti Diare</td>
<td>42 - 47</td>
</tr>
</tbody>
</table>
Aktivitas Antimikroba dan Analisis KLT-Densitometri Metabolit Fraksi \(\text{\textasciitilde}\)Fraksi Ekstrak Endofit dari Aglaia odorata

Abstract

Endophytes are microorganisms that live inside the host plant tissues which have metabolites exhibiting a variety of biological activities against different diseases. AgOt 1A is an endophytic fungus isolated from Aglaia odorata Lour, which in the preliminary study showed antimicrobial activity. The purpose of this research is to evaluate the fractions for its antimicrobial activity and screening the metabolites using TLC &ndash; Densitometry and spot test. AgOt 1A were cultivated under malt extract liquid fermentation, extracted using ethyl acetate, and fractionated. Antimicrobial activity test were conducted to the ethyl acetate extract fractions against Staphylococcus aureus ATCC 6538, Escherichia coli ATCC 8739 and Candida albicans ATCC 10231 by the disc diffusion method. The result showed that fraction number seven of 12 fractions of ethyl acetate extract Agot 1A had antimicrobial activity against Escherichia coli ATCC 8739, whilst fraction number one and three until sixth positive against Staphylococcus aureus ATCC 6538. All fractions negative against Candida albicans ATCC 10231. The other results were all fractions spots are UV active compounds, several spots of fractions are shown characteristic reaction as phenols or phenolic compounds, amines, steroids, terpenoids and terpen. AgOt1A contains many constituents and are valuable sources of new and biologically active molecules possessing antimicrobial property.

Keyword : AgOt, 1A, Aglaia, odorata, Lour, endophytic, fungi, antimicrobial, TLC, â€œ, densitometry, ,

Daftar Pustaka :