

## Supporting Information

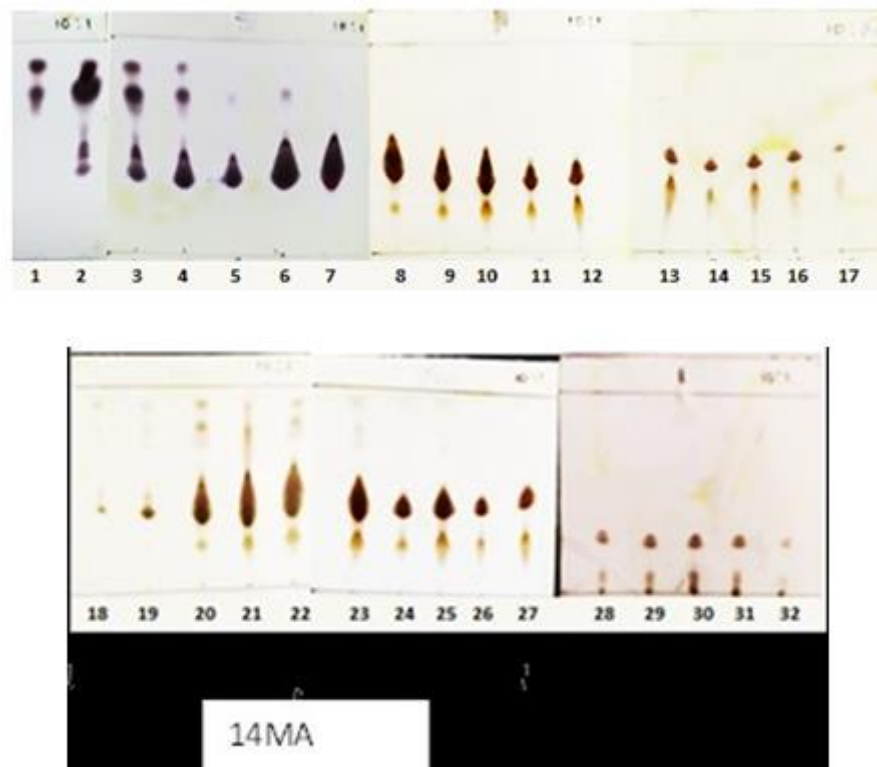
### Steroid Compounds from Endophytic (*Penicillium* sp.) of Mangrove *Avicennia marina*

Rahadian Zainul\*<sup>1</sup> , Syaiful Bahri<sup>2</sup> , Annisa Elcentia Fajarwati<sup>2</sup> , Andi Setiawan<sup>2</sup> ,  
John Hendri<sup>2</sup> , Suropto Dwi Yuwono<sup>2</sup> , Yuli Ambarwati<sup>2</sup> 

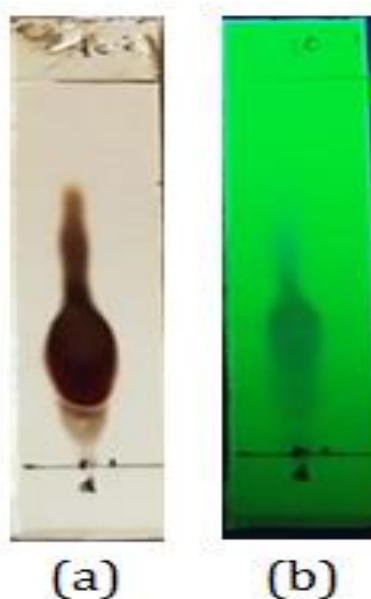
Corresponding author: [rahadianzmsiphd@fmipa.unp.ac.id](mailto:rahadianzmsiphd@fmipa.unp.ac.id)

<sup>1</sup>Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Padang, Padang,  
West Sumatra, Indonesia

<sup>2</sup>Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Lampung, Jalan  
Soemanatri Brojonegoro No.1 Bandar Lampung 35145, Lampung, Indonesia



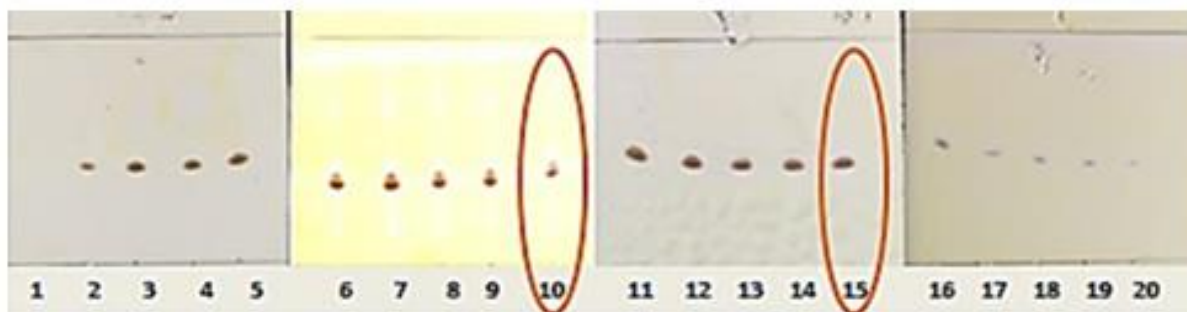
**Figure S1:** TLC results using cerium sulfate reagent (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



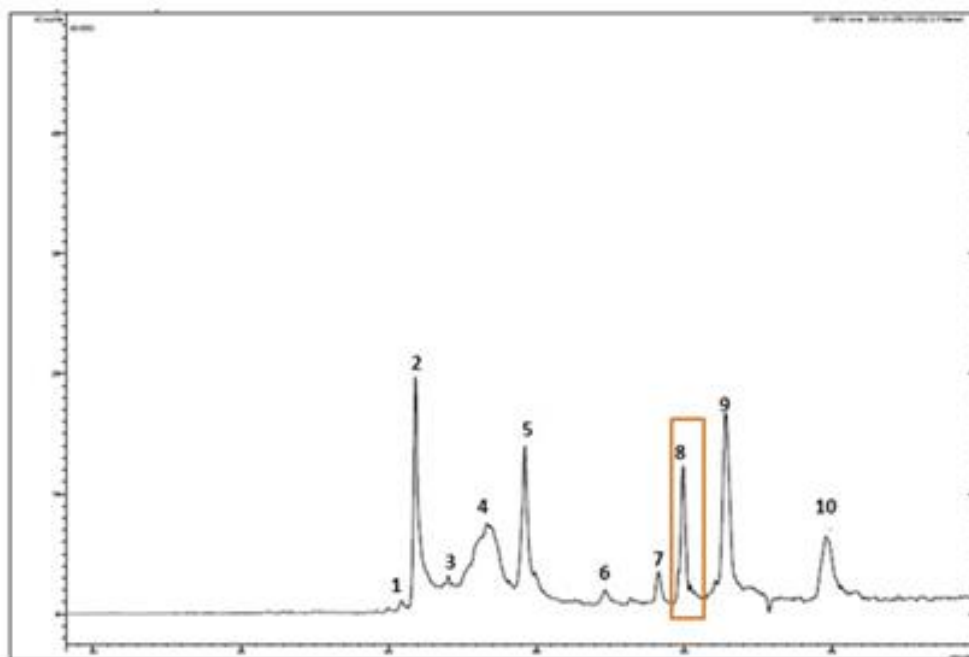
**Figure S2:** The identification of 14MA compounds (a) cerium sulfate reagent and (b) UV visualization at 254 nm (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



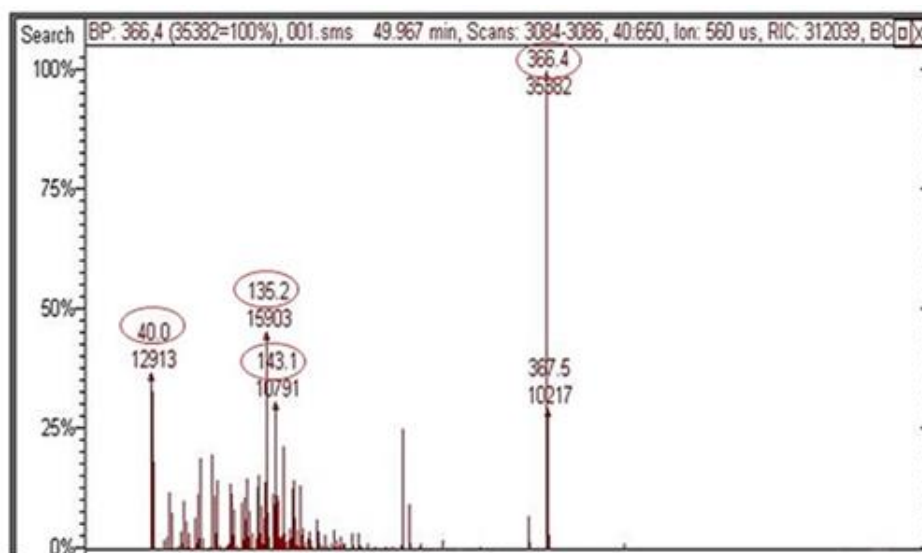
**Figure S3:** Fractionation using the stationary phase sephadex LH-20 (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



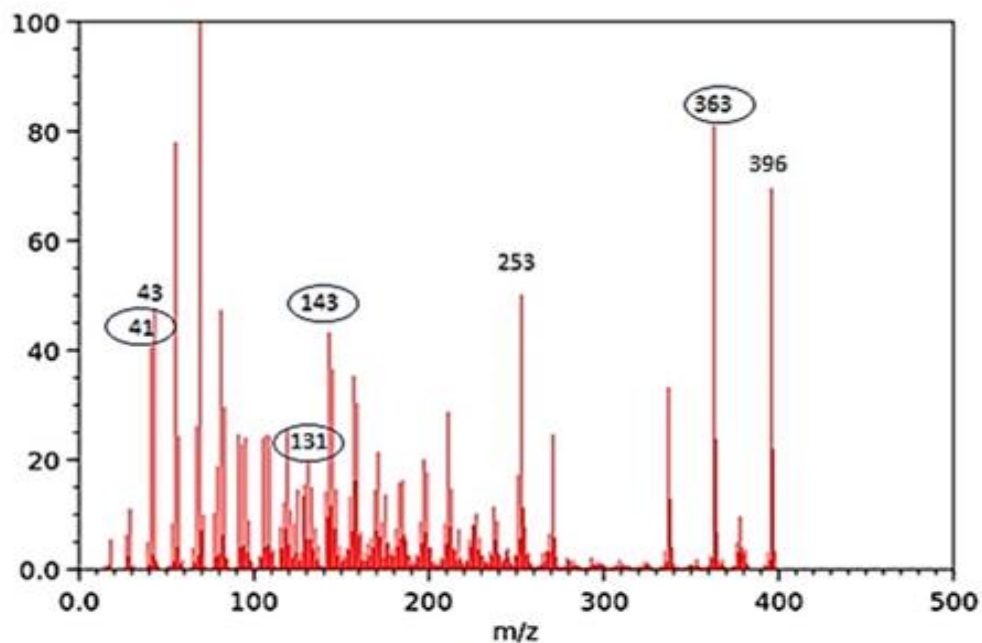
**Figure S4:** Sephadex LH-20 phase column TLC test results (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



**Figure S5:** Spectrum of GC-MS fraction 14MA15 (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)

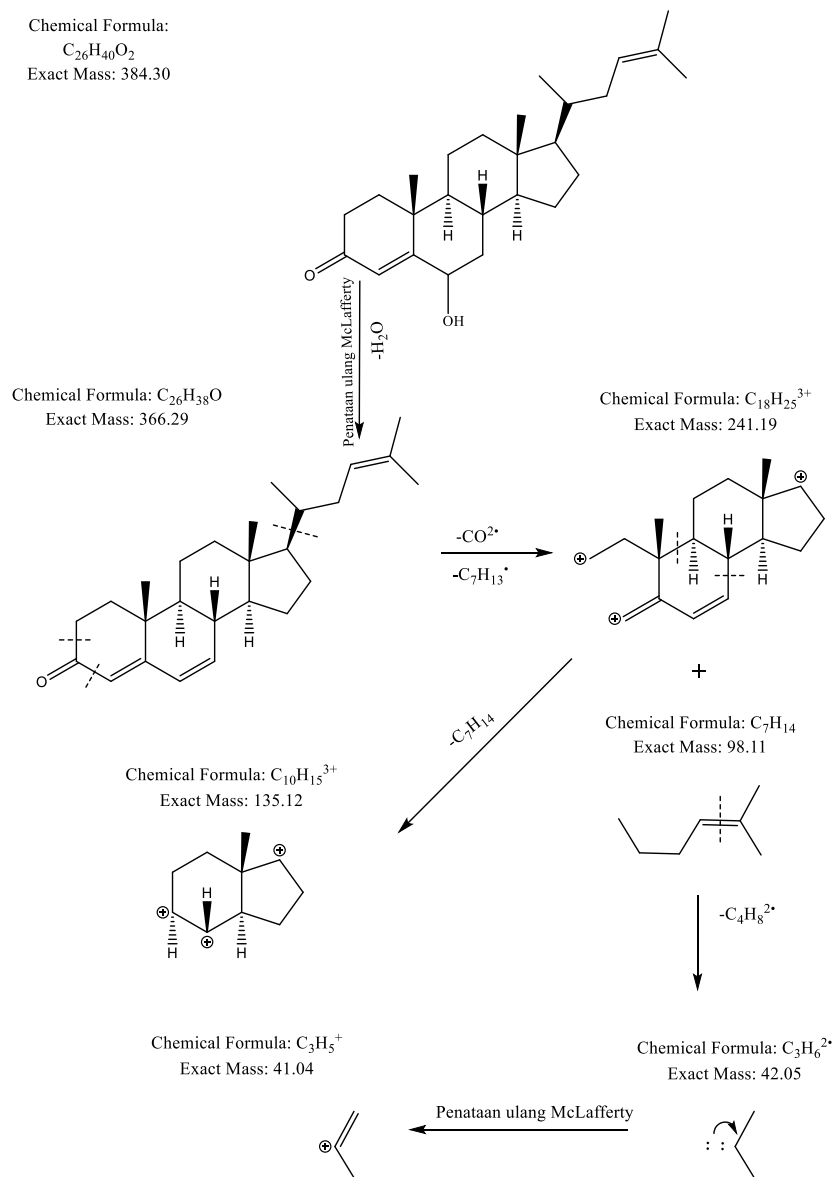


(a)

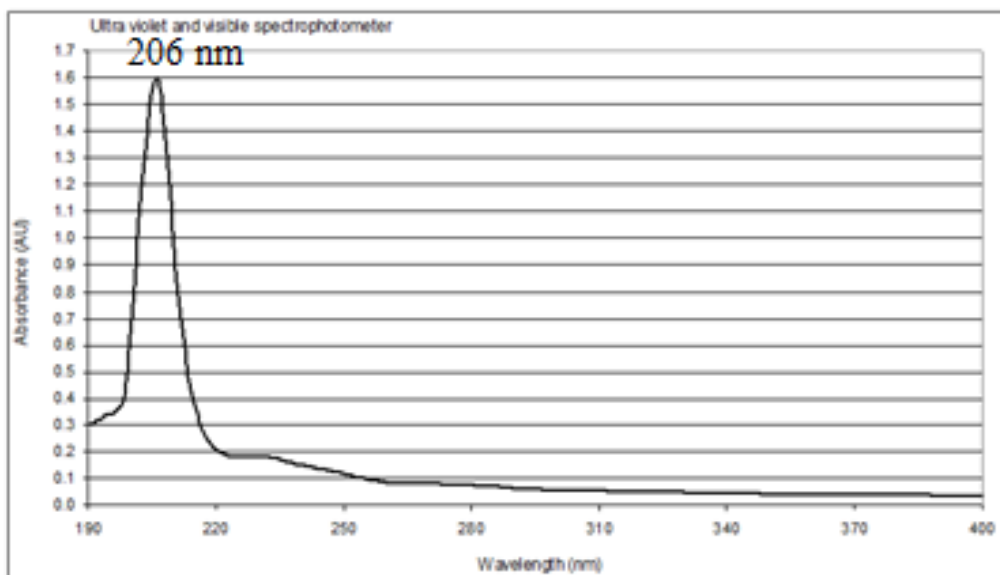


(b)

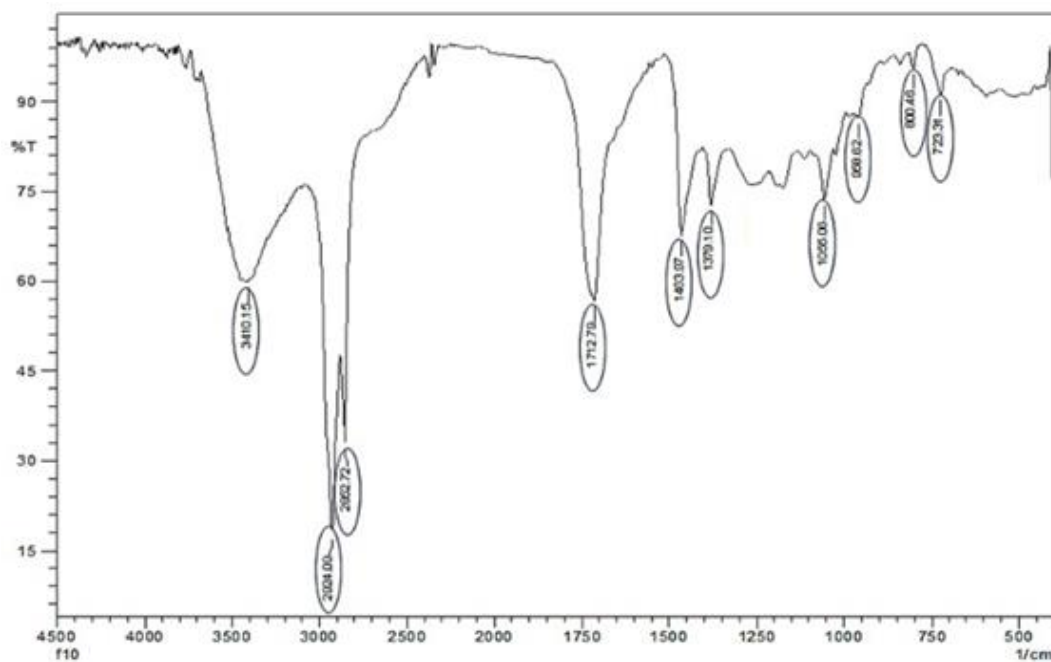
**Figure S6:** MS spectrum (a) the eighth peak of 14MA15 and (b) ergosterol standard (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



**Figure S7:** Fragmentation pattern of the compound 14MA15 (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



**Figure S8:** 14MA10 Uv-Vis spectrum (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)



**Figure S9:** 14MA10 fraction IR spectrum (Source: Photograph courtesy of Syaiful Bahri. Copyright 2021)