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#1658 Summary

SUMMARY REVIEW EDITING

Submission



Authors	Alfrida Monica Salasa, St Ratnah
Title	Aktivitas Antimikroba Ekstrak Kulit Buah Kelengkeng (<i>Euphoria longan</i> Stend) Terhadap Pertumbuhan <i>Candida albicans</i> Dan <i>Propionibacterium acne</i>
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Authors

Name	Alfrida Monica Salasa 
ORCID iD	http://orcid.org/0000-0002-7559-024X
Affiliation	Politeknik Kesehatan Makassar
Country	Indonesia
Bio Statement	—
Principal contact for editorial correspondence.	
Name	St Ratnah 
ORCID iD	http://orcid.org/0000-0003-3608-0439
Affiliation	Poltekkes Kemenkes Makassar
Country	Indonesia
Bio Statement	—

Title and Abstract

Title Aktivitas Antimikroba Ekstrak Kulit Buah Kelengkeng (*Euphoria longan* Stend) Terhadap Pertumbuhan *Candida albicans* Dan *Propionibacterium acne*

Abstract *Longan Fruit (Euphoria longan Stend) Peel Waste contains chemical compounds with antimicrobial activity, which are not fully utilized. The study aims to determine the inhibition of Longan Fruit Peel extract (Euphoria longan Stend) against Candida albicans and Propionibacterium acne. Furthermore, Longan fruit (Euphoria longan Stend) was dried and extracted by maceration method using 96% ethanol, then tested for its antimicrobial activity by agar diffusion method at a concentration of 5% 7.5% and 10% w/v. The results showed that the average inhibition zone diameter for Candida albicans at 5% concentration was 14.33 mm, 7.5% concentration was 15.33 mm, and 10% concentration was 16.66 mm. Meanwhile, the inhibition zone diameter for Propionibacterium acne at a concentration of 5% w/v was 14.67 mm, 7.5% w/v was 16.67 mm, and 10% w/v was 18.33 mm. The Longan Fruit Peel Extract (Euphoria longan Stend) has antimicrobial activity tested against Candida albicans at a concentration of 7.5% w/v and 10% w/v for Propionibacterium acne.*

Keywords: Longan Fruit Peel Extract, Antimicrobial activity, *Candida albicans*, *Propionibacterium acne*

Limbah Kulit Buah Kelengkeng (*Euphoria longan* Stend) mengandung senyawa kimia yang memiliki aktivitas sebagai antimikroba, namun sampai saat ini belum dimanfaatkan secara maksimal. Tujuan penelitian ini untuk menentukan daya hambat ekstrak Kulit Buah kelengkeng (*Euphoria longan* Stend) terhadap *Candida albicans* dan *Propionibacterium acne*. Kulit buah kelengkeng (*Euphoria longan* Stend) dikeringkan kemudian diekstraksi dengan metode maserasi dengan menggunakan Etanol 96% lalu diuji aktivitas antimikrobanya dengan metode difusi agar pada konsentrasi 5%; 7,5% dan 10%b/v. Hasil pengujian menunjukkan rata-rata diameter zona hambat untuk *Candida albicans* pada konsnetrasi 5% sebesar 14,33 mm, konsentration 7,5% sebesar 15,33 mm, konsentration 10% sebesar 16,66 mm. Sedangkan diameter zona hambat untuk *Propionibacterium acne* pada konsentration 5% ^b/_v sebesar 14,67 mm, 7,5% ^b/_v sebesar 16,67 mm, dan konsentration 10% ^b/_v sebesar 18,33 mm Hasil uji statistik menunjukkan Ekstrak Kulit Buah kelengkeng (*Euphoria longan* Stend) memiliki aktivitas antimikroba terhadap *Candida albicans* pada konsentration 7,5% b/v dan konsentration 10%b/v untuk *Propionibacterium acne*.

Kata Kunci : Ekstrak Kulit Buah Kelengkeng, Aktivitas antimikroba, *Candida albicans*, *Propionibacterium acne*

Indexing

Language en

Supporting Agencies

Agencies —

References

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Kontak Editor

Hendra Stevani

Jurusan Farmasi Poltekkes kemenkes Makassar

email : hendra@poltekkes-mks.ac.id

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Jurusan Farmasi Poltekkes kemenkes Makassar

email : hendra@poltekkes-mks.ac.id

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Kontak Editor

Hendra Stevani

Jurusan Farmasi Poltekkes kemenkes Makassar

email : hendra@poltekkes-mks.ac.id

00306106

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