

LAMPIRAN

Lampiran 1 Hasil Determinasi



INSTITUT TEKNOLOGI BANDUNG

SEKOLAH ILMU DAN TEKNOLOGI HAYATI

Jalan Ganesa 10 Bandung 40132, Telp.: (022) 251 1575, 250 0258, Fax.: (022) 253 4107
e-mail: sith@itb.ac.id http://www.sith.itb.ac.id

Nomor : 154/IT1.C11.2/TA.00/2022
Hal : Determinasi tumbuhan

10 Januari 2022

Kepada Yth.
Dekan
Fakultas Farmasi
Universitas Bhakti Kencana
Jalan Soekarno Hatta No. 754
Bandung

Memperhatikan surat permintaan Saudara dalam surat No. 0031/03.FF.03/UBK/I/2022 tanggal 05 Januari 2022 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan determinasi oleh staf kami, sampel jamur yang dikirim oleh Sdr. Tina Susilawati (NPM: 11181141) dan Tegar Muhamad Nurpalah (NPM: 11181046), yaitu:

No	Nama sampel	Hasil determinasi	Famili
1	Jamur kancing	<i>Agaricus bisporus</i> (J.E.Lange) Imb.	Agaricaceae

Referensi:

1. Mitchell, A.D., & Walter, M. (1999). Species of *Agaricus* occurring in New Zealand. *New Zealand Journal of Botany*, 37(4), 715–725.

Demikian yang kami sampaikan. Atas perhatian dan kerjasama yang diberikan, kami ucapkan terima kasih.



Wakil Dekan Bidang Sumber Daya,

Dr. Angga Dwiartama
NIP. 198302052012121002

Tembusan:
Dekan SITH ITB, sebagai laporan.

Terakreditasi oleh :



Lampiran 2 Sertifikat Jamur *Candida albicans*

bioMérieux Customer
System #: 7989

Printed by: labtech

Patient Name: Candida albicans
Isolate Group:

Card Type: GP Testing Instrument: 0000148FF2BD (7900)

Bionumber: 021110364301111
Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242370010	Expires: 12 Dec 2022
	Completed: May 3, 2018 14:31 CDT	Status: Final	Analysis Time: 5.00 hours
Selected Organism	97% Probability Candida albicans Bionumber: 021110364301111 Confidence: Excellent Identification		
BRP Organism			
Analysis Organisms and Tests to Separate:			
Candida albicans			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details											
2	AMY	4	P/PLC	5	dXYL	8	ADH1	9	B/GAL	11	AGLU
13	APPA	14	CDEX	15	AspA	16	B/GAR	17	AMAN	18	PHOS
20	LeuA	23	ProA	24	B/GUR	25	AGAL	26	PyA	27	B/GUR
28	AlaA	29	TyrA	30	dSOR	31	URE	32	POLYD	37	dGAL
38	dRID	39	LATk	42	LAC	44	NAG	45	dMAN	46	BAC1
47	NOVO	50	NC6.5	52	dMAN	53	dMNE	54	M9dG	56	3'UL
57	dRAF	58	O120H	59	SAL	60	SAC	62	dHLE	63	ADH2s
64	OPTO										

Installed VITEK 2 System Version: 07 D1
MIC Interpretation Guideline:
AES Parameter Set Name:

Therapeutic Interpretation Guideline:
AES Parameter Last Modified:

Lampiran 3 Sertifikat Jamur *Aspergillus flavus*

bioMérieux Customer
System #: T069

Printed by: labtech

Patient Name: Aspergillus flavus
Isolate Group:

Card Type: GP Testing Instrument: 0000148FF2BD (7909)

Binumber: 021110354301111
Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242370010	Expires: 12 Dec 2022
	Completed: May 3, 2016 14:31 CDT	Status: Final	Analysis Time: 5.00 hours
Selected Organism	97% Probability Aspergillus flavus Binumber: 021110354301111 Confidence: Excellent identification		
SRF Organism			
Analysis Organisms and Tests to Separate: Aspergillus flavus			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details											
2	AMY	-	4	P-PLC	-	6	dXYL	-	8	ADH1	-
13	APPA	-	14	CDEX	-	15	AspA	-	16	BGAR	-
20	LeuA	+	23	ProA	-	24	BGUR	-	25	AGAL	-
28	AsaA	+	29	TyrA	+	30	dSOR	-	31	URF	-
36	dRIB	-	38	LATk	-	42	IAC	+	44	NAG	+
47	NOVO	-	50	NC6.5	-	52	dMAN	-	53	dMNC	+
57	dRAF	+	58	O120R	-	59	SAL	-	60	SAC	+
64	OP10	+									

Installed VITEK 2 System Version: 07.01
MIC Interpretation Guidelines:
AES Parameter Set Name:

Therapeutic Interpretation Guidelines:
AES Parameter Last Modified:

Lampiran 4 Sertifikat Jamur *Microsporum gypseum*

bioMérieux Customer:
System #: 7969

Printed by: labtech

Patient Name: Microsporum gypseum
Isolate Group:

Card Type: GP Testing Instrument: 0000148FF2BD (7909)

Runnumber: 021110364301111
Organism Quantity:

Comments:

Identification Information	Card: GP	Lot Number: 242370010	Expires: 12 Dec 2021
	Completed: May 3, 2016 14:31 CDT	Status: Final	Analysis Time: 5.00 hours
Selected Organism	97% Probability Microsporum gypseum Runnumber: 021110364301111 Confidence: Excellent identification		
SRF Organism			
Analysis Organisms and Tests to Separate: Microsporum gypseum			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

2	AMY	-	4	P/PLC	-	5	dXYL	-	8	ADH1	-	9	dGAL	-	11	AGLU	-
13	APPA	+	14	CDEX	-	15	AspA	-	16	BGAR	+	17	AMAN	-	19	PHOS	-
20	LeuA	+	23	P/PA	-	24	BGURJ	-	25	AGAL	-	26	PyrA	-	27	BGUR	-
28	AlaA	+	29	TyrA	+	30	dSOR	-	31	URE	-	32	POLYB	+	37	dGAL	+
38	dRIG	-	39	ILATb	-	42	IAC	+	44	NAG	+	45	dMAN	-	46	BACI	-
47	NOVO	-	50	NCOS	-	52	dMAN	-	53	dMNC	-	54	MBGO	-	55	I'UL	-
57	dRAF	+	58	Q12YN	-	59	SAL	-	60	SAC	+	62	dTRE	-	63	ADH2s	-
64	OPTO	+															

Installed VITEK 2 Systems Version: 07.01
MIC Interpretation Guideline:
AES Parameter Set Name:

Therapeutic Interpretation Guideline:
AES Parameter Last Modified:

Page 1 of 1

Lampiran 5 Pembuatan simplisia Jamur Kancing (*Agaricus bisporus*)



Jamur kancing basah



perajangan kancing kering



Pengeringan jamur kancing (Simplisia)



Jamur kancing kering (simplisia)

Proses Ekstraksi jamur kancing (*Agaricus bisporus*)



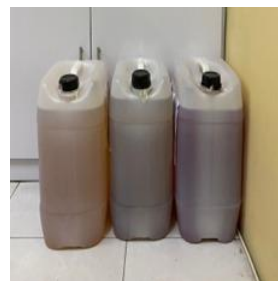
Penghalusan simplisia



Perendaman menggunakan etanol 96%



Penyaringan jamur kancing



Maserat Jamur kancing



Proses rotary jamur kancing



Proses waterbath jamur kancing

Proses Fraksinasi jamur kancing (*Agaricus bisporus*)



Fraksinasi N-Heksan



Fraksinasi Etil asetat



Hasil fraksinasi



Waterbath hasil fraksinasi

Lampiran 6 Hasil skrining fitokimia ekstrak jamur kancing (*Agaricus bisporus*)



Alkaloid (+)



Flavonoid (+)



Saponin (-)



Tannin (+)



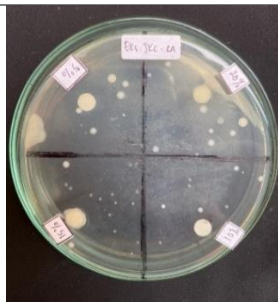
Kuinon (-)



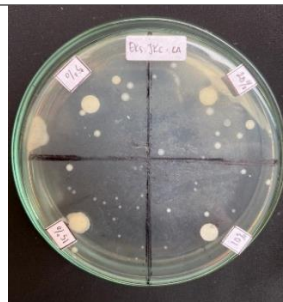
Steroid (+)

Lampiran 7 Hasil Pengujian Aktivitas Antijamur Difusi Cakram

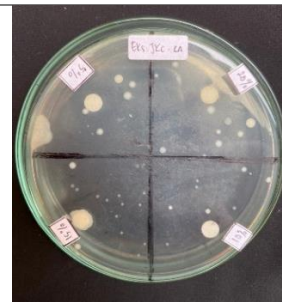
Candida albicans



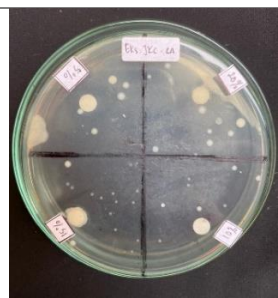
Ekstrak JKC-CA



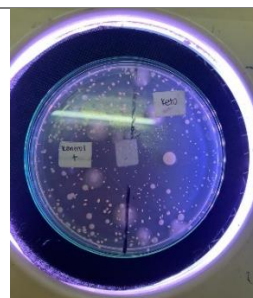
Fraksi N-Heksan JKC-CA



Fraksi Etil asetat JKC-CA



Fraksi Metanol:air JKC-CA

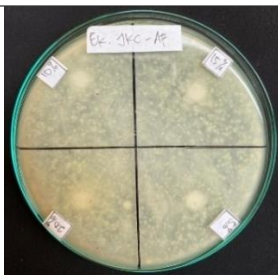


Kontrol + dan ketokonazol

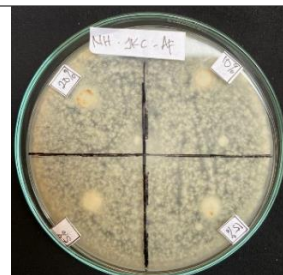


Kontrol PDA JKC-CA

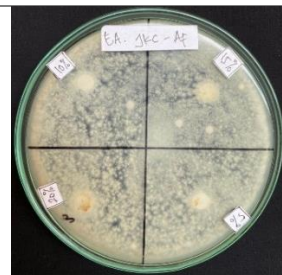
Aspergillus flavus



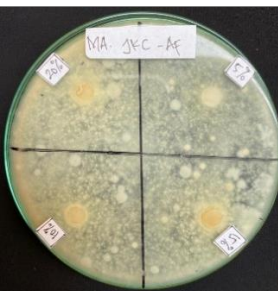
Ekstrak JKC-AF



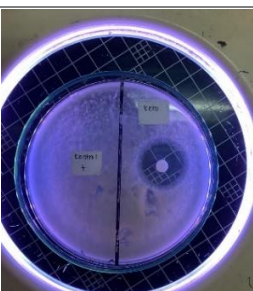
Fraksi N-Heksan JKC-AF



Fraksi Etil asetat JKC-AF



Fraksi Met:air JKC-AF

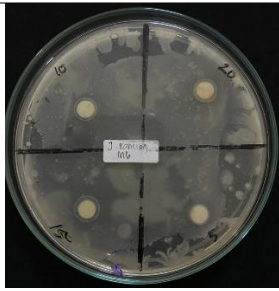


Kontrol + dan ketokonazol



Kontrol PDA JKC-AF

Microsporium gypseum



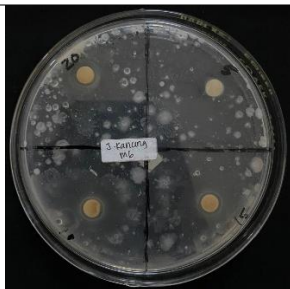
Ekstrak JKC-MG



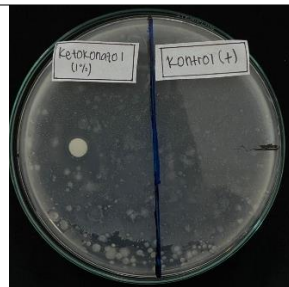
Fraksi N-Heksan JKC-MG



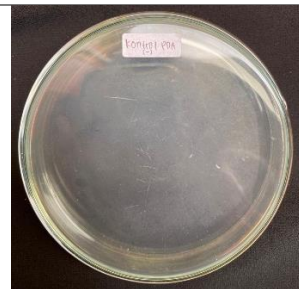
Fraksi Etil asetat JKC-MG



Fraksi Metanol:air JKC-MG



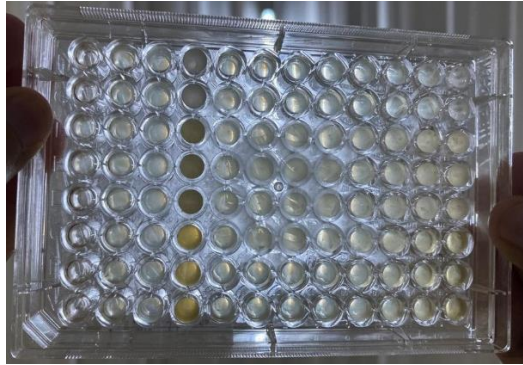
Kontrol + dan ketokonazol
JKC-MG



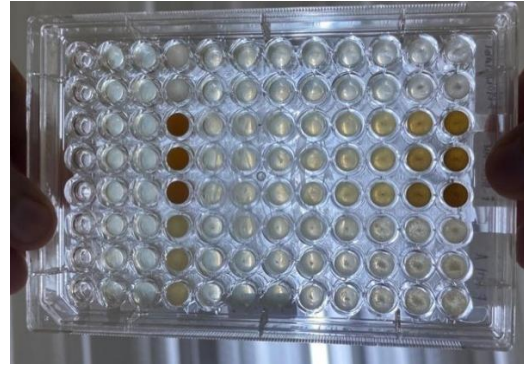
Kontrol PDA JKC-MG

Lampiran 8 Hasil Pengujian Aktivitas Antijamur Metode Mikrodilusi

Candida albicans (KHM)

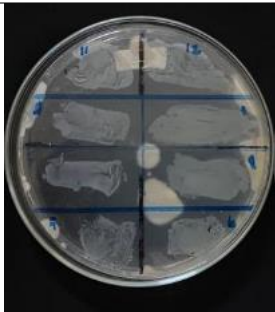


Ekstrak + N-Heksan + ketokonazol

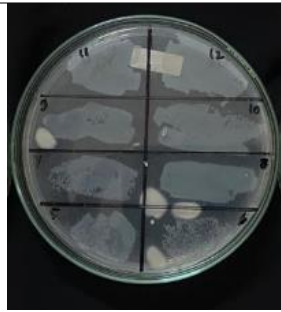


Etil asetat + Metanol:air + ketokonazol

Candida albicans (KFM)



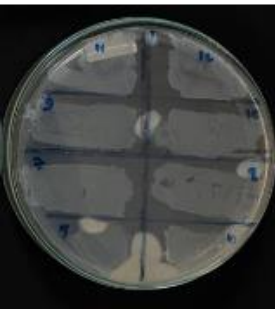
Ekstrak KFM-CA



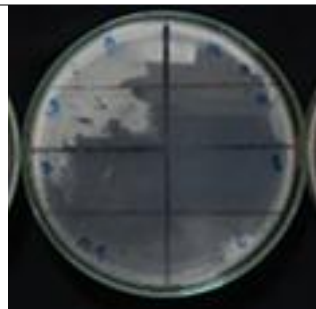
N-Heksan KFM-CA



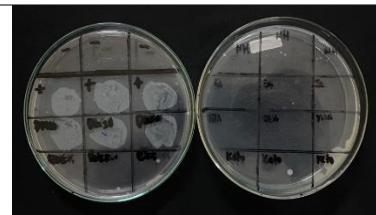
Etil asetat KFM-CA



Metanol:air KFM-CA



Ketokonazol KFM-CA

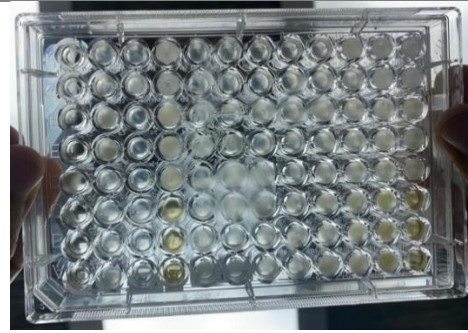


Kontrol CA

Aspergillus flavus (KHM)

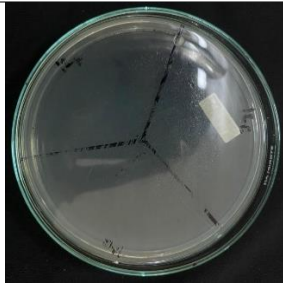


Ekstrak + N-heksan + ketokonazol

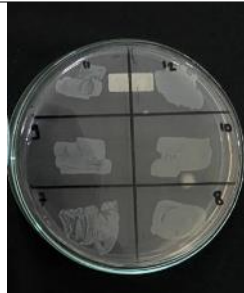


Etil asetat + Metanol:air + ketokonazol

Aspergillus flavus (KFM)



Ekstrak KFM-AF



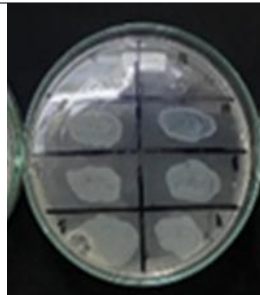
N-Heksan KFM-AF



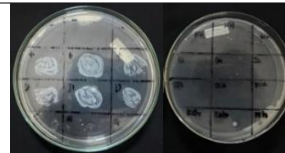
Etil asetat KFM-AF



Metanol:air KFM-AF



Ketokonazol KFM-AF

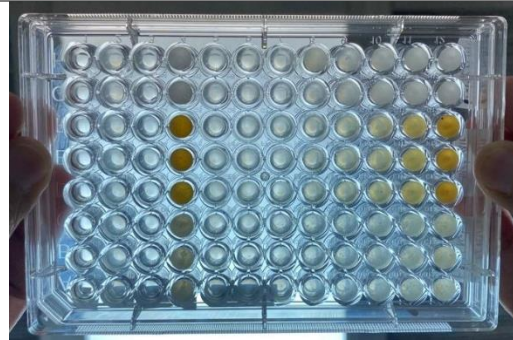


Kontrol AF

Microsporum gypseum (KHM)



Ekstrak + N-heksan + ketokonazol

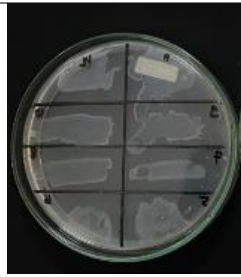


Etil asetat + Metanol:air + ketokonazol

Microsporum gypseum (KFM)



Ekstrak KFM-MG



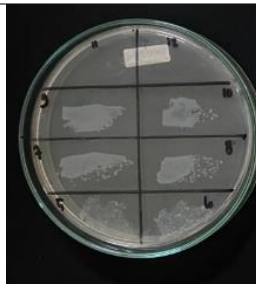
N-Heksan KFM-MG



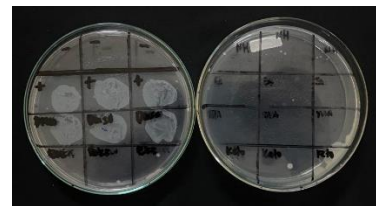
Etil asetat KFM-MG



Metanol:air KFM-MG



Ketokonazol KFM-MG



Kontrol MG

Lampiran 9 Hasil Absorbansi

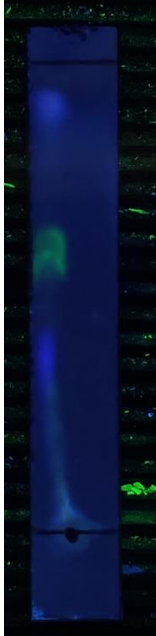
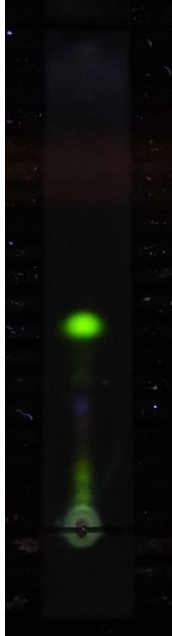
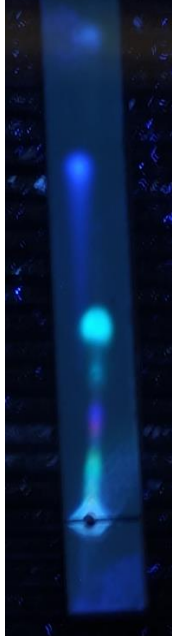
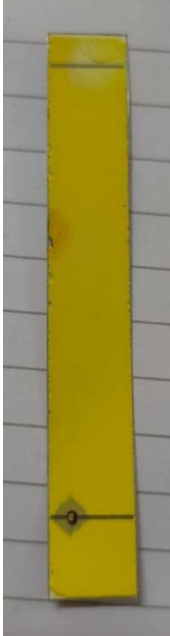
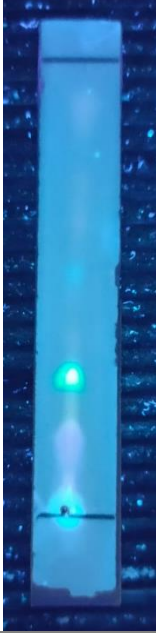
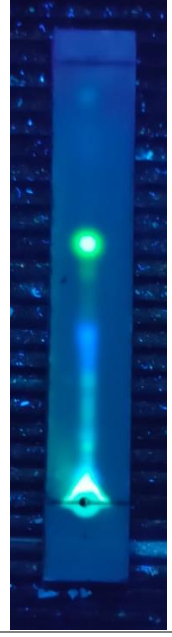
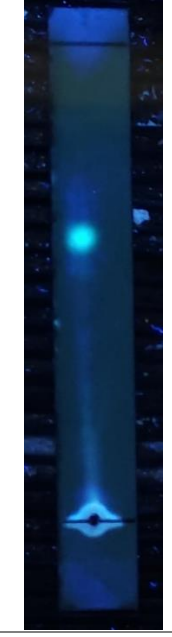
Candida albicans

Sample Table - (Active)						
	Sample ID	Type	Ex	Conc	WL530.0	Comments
1	C.Albicans	Unknown		*****	0.080	
2	c. albicans	Unknown		*****	0.081	
3						

Aspergillus flavus* dan *Microsporum gypseum

Sample Table - (Active)						
	Sample ID	Type	Ex	Conc	WL530.0	Comments
1	M.Gypseum	Unknown		*****	0.086	
2	A.Flavus	Unknown		*****	0.087	
3						

Lampiran 10 Uji Bioautografi

Ekstrak jamur kancing					
N-Heksan: Etil Asetat (9:1)					
H ₂ SO ₄ Visual	H ₂ SO ₄ UV 366	LB UV 366	AlCl ₃ UV 366	FeCl ₃	Dragendorf UV 366
					
Fraksi Etil-Asetat jamur kancing					
H ₂ SO ₄ Visual	H ₂ SO ₄ UV 366	LB UV 366	AlCl ₃ UV 366	FeCl ₃	Dragendorf UV 366
					

Lampiran 11 Surat Keterangan bebas plagiasi

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Tina Susilawati

N P M : 11181141

adalah mahasiswa Fakultas Farmasi, Universitas Bhakti Kencana, menyatakan dengan sesungguhnya bahwa Naskah Tugas Akhir/Skripsi yang saya tulis dengan judul:

**Aktivitas Antijamur Ekstrak dan Fraksi Etanol Jamur Kancing (*Agaricus bisporus*)
Terhadap Jamur *Candida albicans*, *Aspergillus flavus* dan *Microsporum gypseum***

adalah benar-benar merupakan hasil karya saya sendiri. Apabila di kemudian hari diketahui bahwa isi Naskah Skripsi ini merupakan hasil plagiasi, maka saya bersedia menerima sanksi berupa pembatalan kelulusan dan atau pencabutan gelar yang saya peroleh.

Demikian surat pernyataan ini saya buat untuk dapat dipergunakan sebagaimana mestinya.

Bandung, September 2022
Yang membuat pernyataan,



Tina Susilawati

NPM 11181141

Lampiran 12 Surat Persetujuan untuk dipublikasikan di media online

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Tina Susilawati

N P M : 11181141

Menyatakan bahwa demi kepentingan perkembangan ilmu pengetahuan, saya menyetujui abstrak Skripsi yang saya tulis dengan judul:

**Aktivitas Antijamur Ekstrak dan Fraksi Etanol Jamur Kancing (*Agaricus bisporus*)
Terhadap Jamur *Candida albicans*, *Aspergillus flavus* dan *Microsporum gypseum***

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Bandung, September 2022

Yang membuat pernyataan,



Tina Susilawati

NPM 11181141

11181141 Tina Susilawati

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