

LAMPIRAN

Lampiran 1. Tabel komposisi media serbuk sari

Media	Jenis Media	Komposisi	Konsentrasi
P1	Cair	Sukrosa	5%
		H ₃ BO ₃ (boric acid)	0,1 %
		Agar	1 %
		pH	5,5
P2		Sukrosa	10%
		H ₃ BO ₃ (boric acid)	0,1 %
		Agar	1 %
		pH	5,5
P3		Sukrosa	15%
		H ₃ BO ₃ (boric acid)	0,1 %
		Agar	1 %
		pH	5,5
P4	Sukrosa	20%	
	H ₃ BO ₃ (boric acid)	0,1 %	
	Agar	1 %	
	pH	5,5	
P5	Padat	Sukrosa	100 gram/L
		H ₃ BO ₃ (boric acid)	0,1 gram/L
		Ca(NO ₃) ₂ .4H ₂ O (calcium nitrat)	0,3 gram/L
		KNO ₃ (kalium nitrat)	0,9 gram/L
		Agar	10 gram/L
		pH	5,8
P6	Cair	Sukrosa	10%
		H ₃ BO ₃ (boric acid)	100 ppm
		Ca(NO ₃) ₂ .4H ₂ O (calcium nitrat)	300 ppm
		KNO ₃ (kalium nitrat)	100 ppm
		MgSO ₄ .7H ₂ O (magnesium sulfat)	200 ppm
		pH	5,5

Lampirn 2. Tabel Rancangan Acak Lengkap Faktorial

Kombinasi	Keterangan
V0P1	Tanaman SoE dengan media P1
V0P2	Tanaman SoE dengan media P2
V0P3	Tanaman SoE dengan media P3
V0P4	Tanaman SoE dengan media P4
V0P5	Tanaman SoE dengan media P5
V0P6	Tanaman SoE dengan media P6
V1P1	Tanaman 76.3 dengan media P1
V1P2	Tanaman 76.3 dengan media P2
V1P3	Tanaman 76.3 dengan media P3
V1P4	Tanaman 76.3 dengan media P4
V1P5	Tanaman 76.3 dengan media P5
V1P6	Tanaman 76.3 dengan media P6
V2P1	Tanaman 76.27 dengan media P1
V2P2	Tanaman 76.27 dengan media P2
V2P3	Tanaman 76.27 dengan media P3
V2P4	Tanaman 76.27 dengan media P4
V2P5	Tanaman 76.27 dengan media P5
V2P6	Tanaman 76.27 dengan media P6
V3P1	Tanaman 86.6 dengan media P1
V3P2	Tanaman 86.6 dengan media P2
V3P3	Tanaman 86.6 dengan media P3
V3P4	Tanaman 86.6 dengan media P4
V3P5	Tanaman 86.6 dengan media P5
V3P6	Tanaman 86.6 dengan media P6
V4P1	Tanaman 86.7 dengan media P1
V4P2	Tanaman 86.7 dengan media P2
V4P3	Tanaman 86.7 dengan media P3
V4P4	Tanaman 86.7 dengan media P4
V4P5	Tanaman 86.7 dengan media P5
V4P6	Tanaman 86.7 dengan media P6
V5P1	Tanaman 86.16 dengan media P1
V5P2	Tanaman 86.16 dengan media P2
V5P3	Tanaman 86.16 dengan media P3
V5P4	Tanaman 86.16 dengan media P4
V5P5	Tanaman 86.16 dengan media P5
V5P6	Tanaman 86.16 dengan media P6

Lampiran 3. Analisis Ragam

1. Analisis Ragam Viabilitas Serbuk Sari

Sumber Keragaman	db	JK	KT	F hit	F tabel	
					5%	1%
Aksesi	5	55.16	11.03	16.69**	2.62	3.90
Galat	24	15.87	0.66			
Total	29	71.03				

2. Analisis Ragam Fertilitas Serbuk Sari

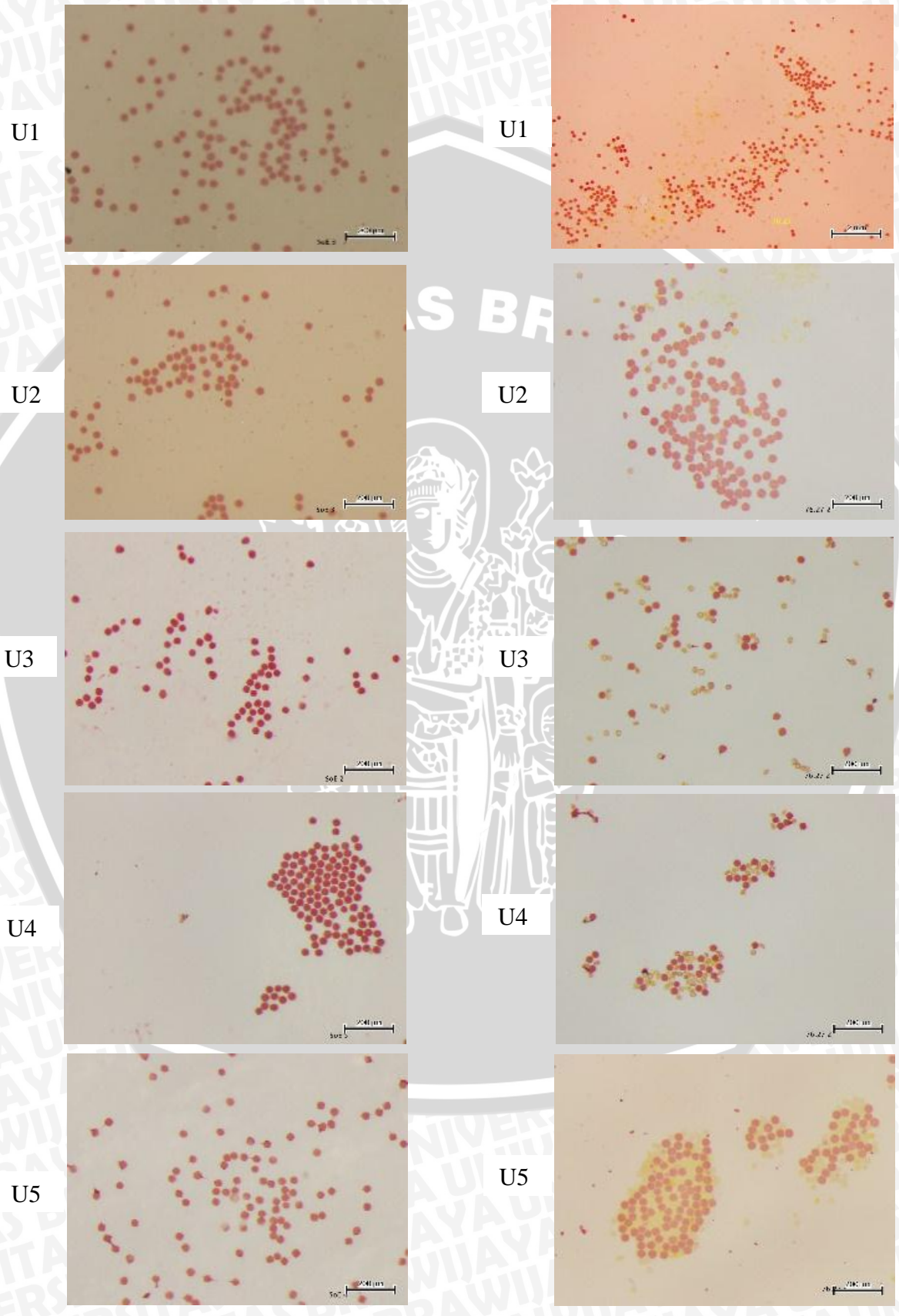
Sumber Keragaman	db	JK	KT	F hit	F tabel	
					5%	1%
Aksesi	5	3.11	0.62	65.08**	2.28	3.15
Media	5	7.19	1.44	150.45**	2.28	3.15
Interaksi	25	0.30	0.01	1.24 tn	1.58	1.91
Galat	144	1.38	0.01			
Total	179	11.97				

3. Analisis Ragam Panjang Tabung

Sumber Keragaman	db	JK	KT	F hit	F tabel	
					5%	1%
Aksesi	5	19.86	3.97	7.53**	2.28	3.15
Media	5	1272.94	254.59	482.72**	2.28	3.15
Interaksi	25	16.22	0.65	1.23 tn	1.58	1.91
Galat	144	75.95	0.53			
Total	179	1384.96				

Lampiran 4. Gambar Viabilitas Serbuk Sari SoE

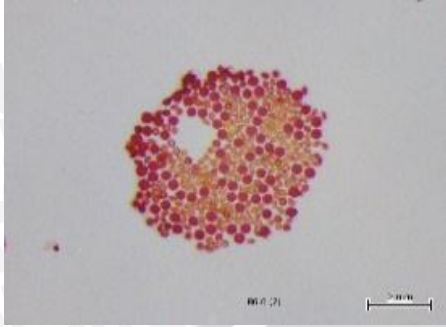
76.27



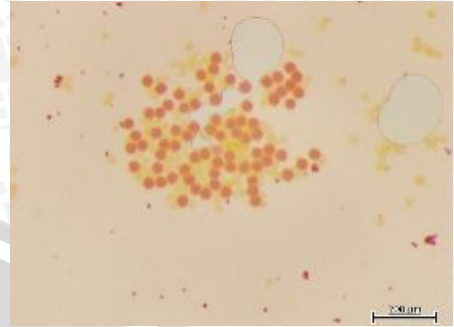
86.7

86.6

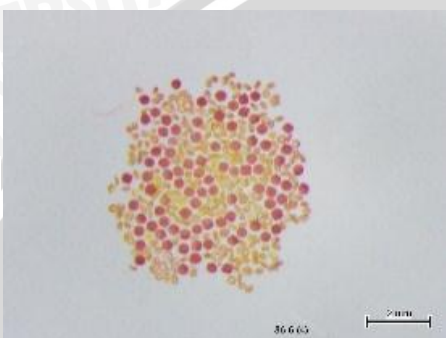
U1



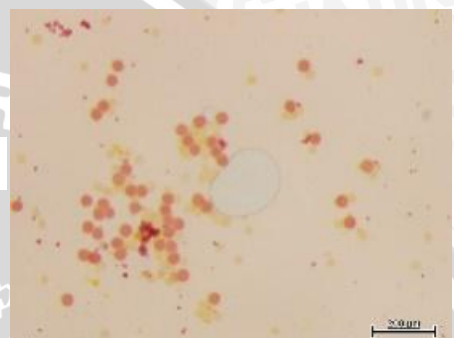
U1



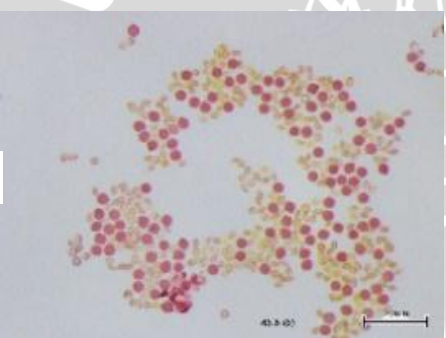
U2



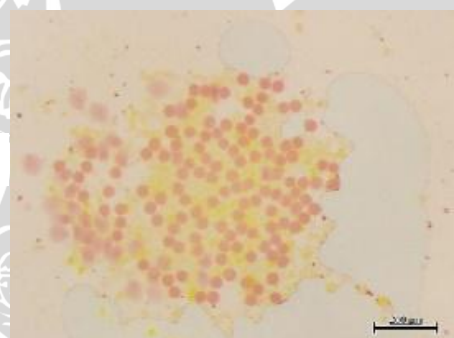
U2



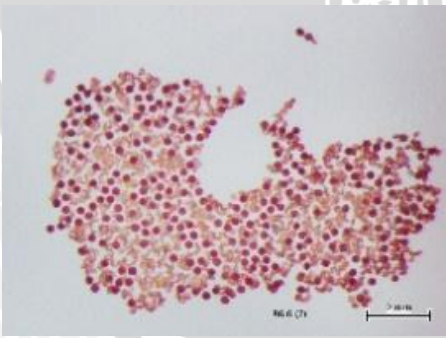
U3



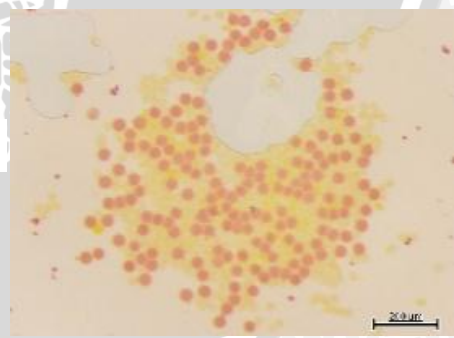
U3



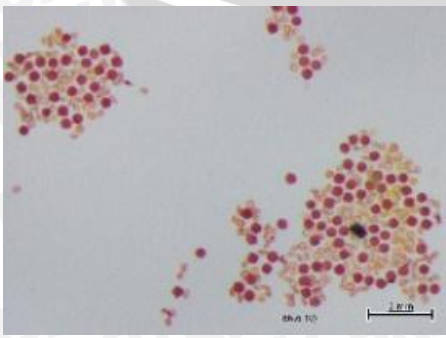
U4



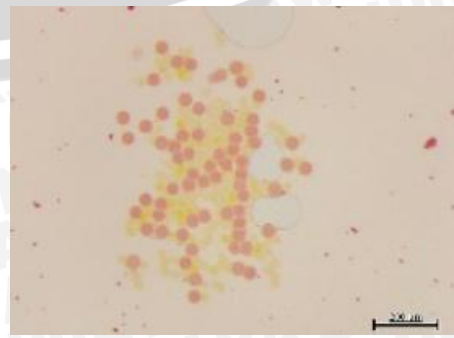
U4



U5



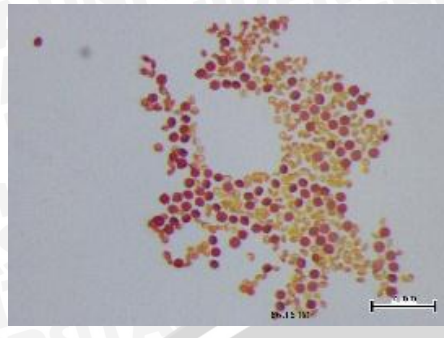
U5



86.16

76.3

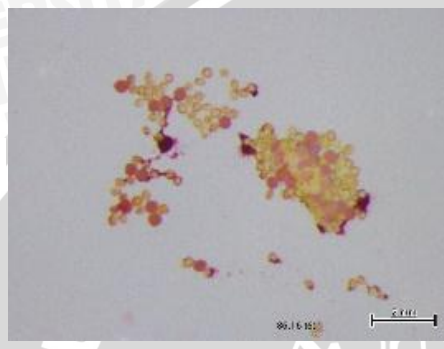
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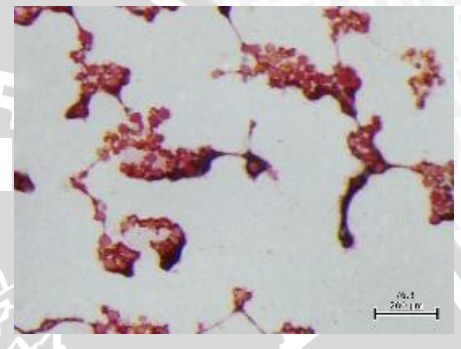
U1



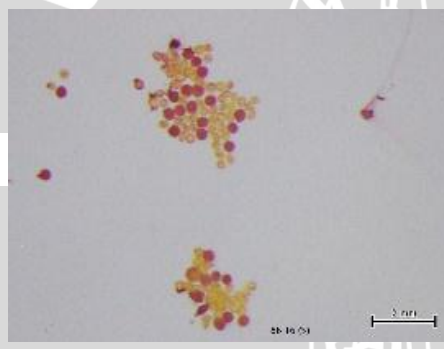
U2



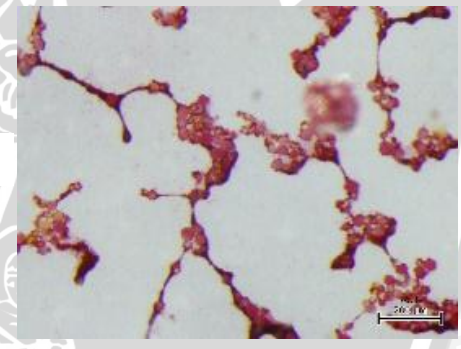
U2



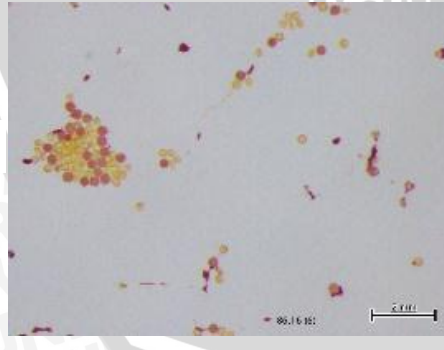
U3



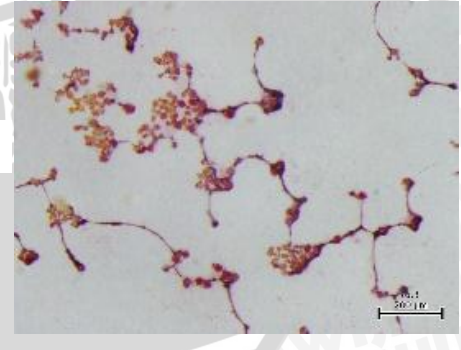
U3



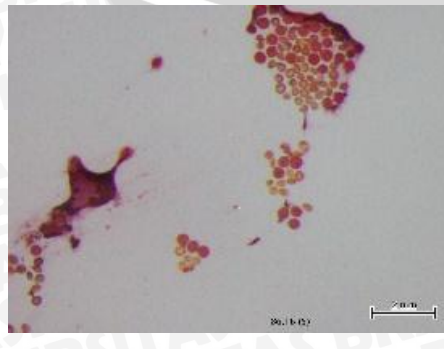
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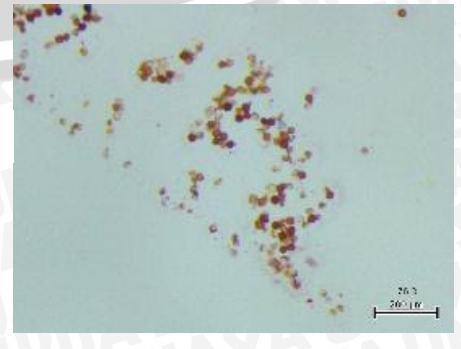
U4



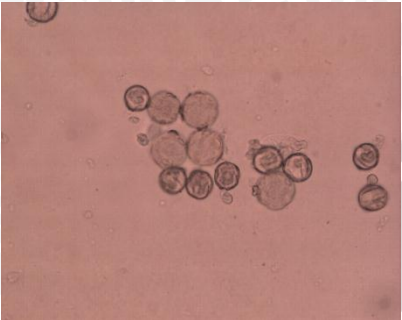
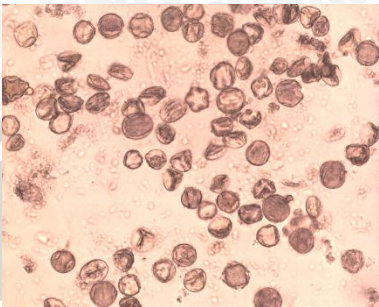

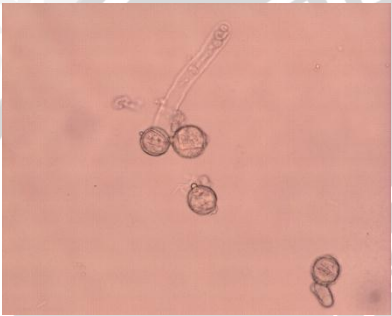
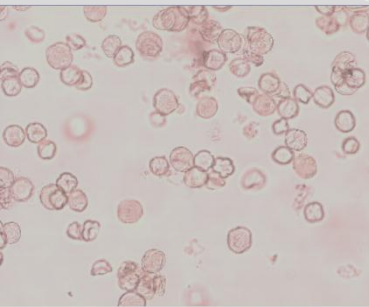


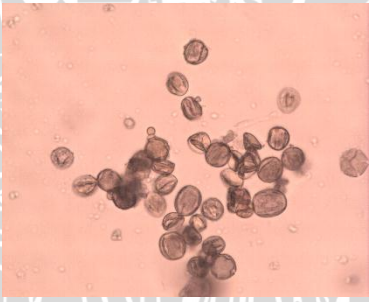
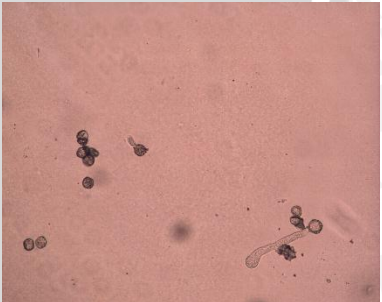
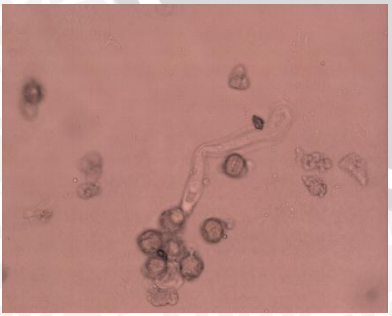


U5



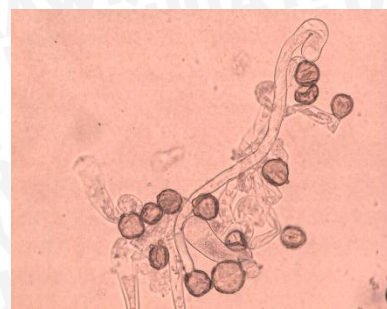
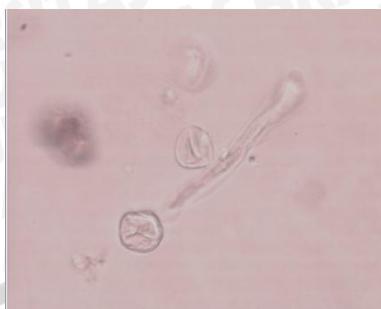
U5



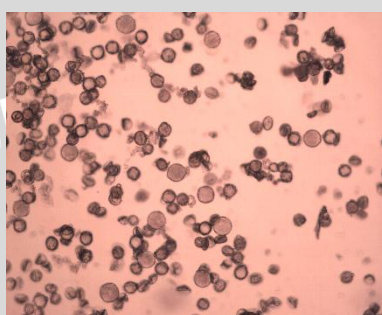
Lampiran 5. Gambar panjang tabung pada masing-masing tanaman aksesori di setiap media tumbuh.

Media	Tetua Tanaman SoE	Aksesori dari perbanyakan tanaman SoE	
		76.3	76.27
P1			
P2			
P3			
P4			

P5



P6



Media

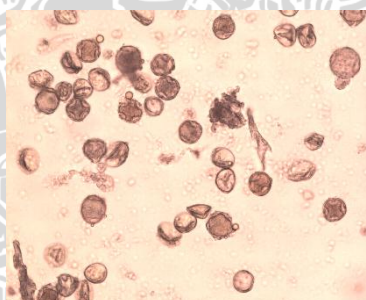
Akresi dari perbanyak tanaman SoE

86.7

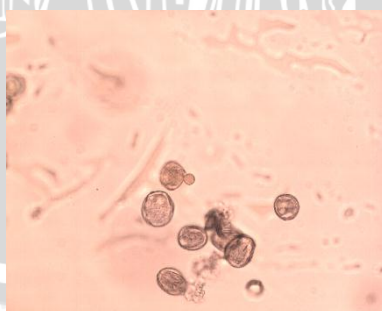
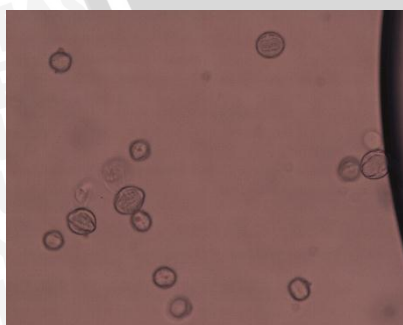
86.6

86.16

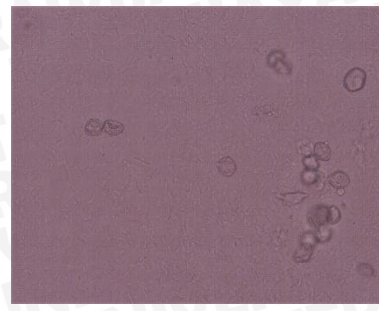
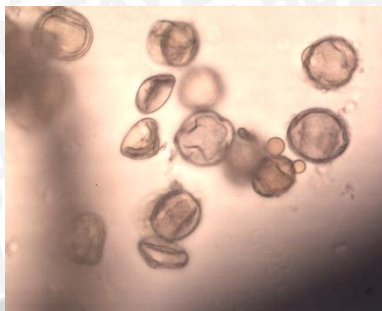
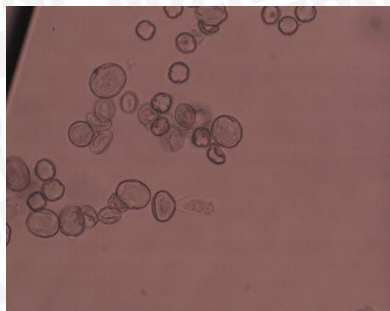
P1



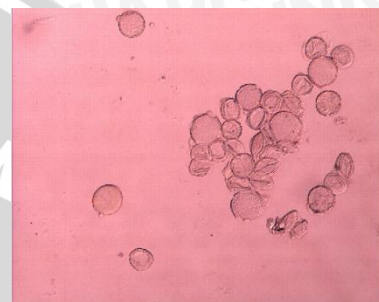
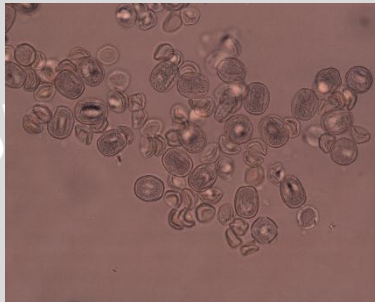
P2



P3



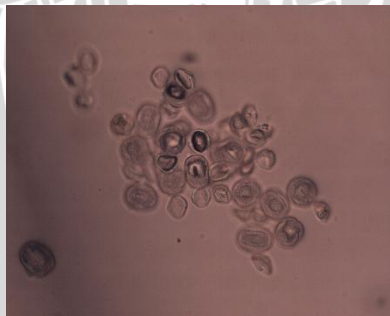
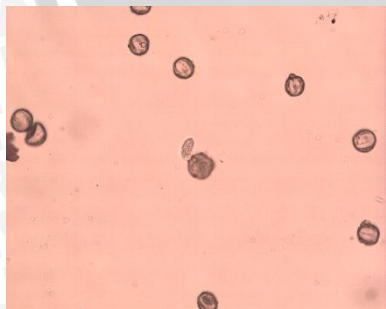
P4



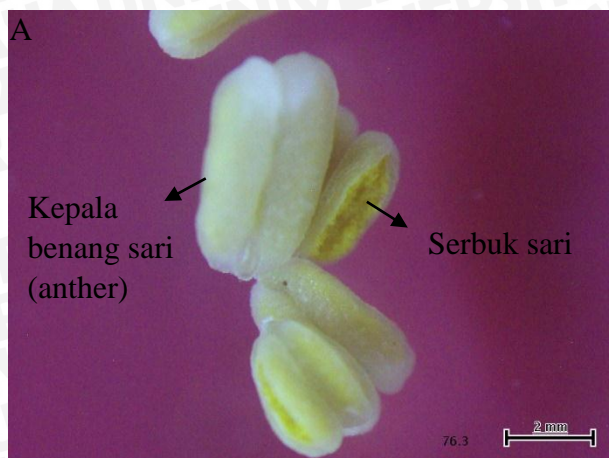
P5



P6



Lampiran 6. Gambar serbuk sari.



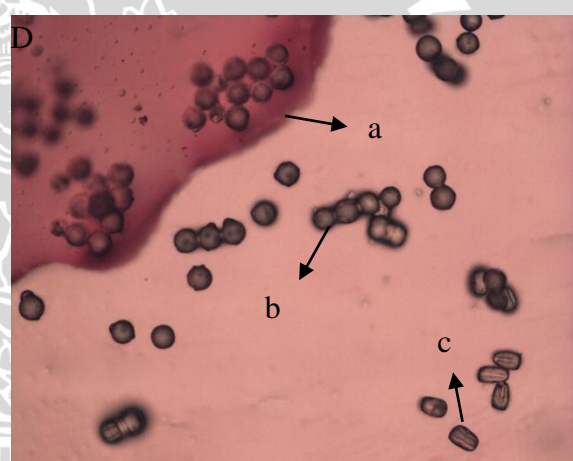
Kondisi kepala benang sari yang sudah pecah pada tanaman aksesori 76.3.



Contoh Bentuk fisiologi serbuk sari tanaman SoE dengan perbesaran 800x.

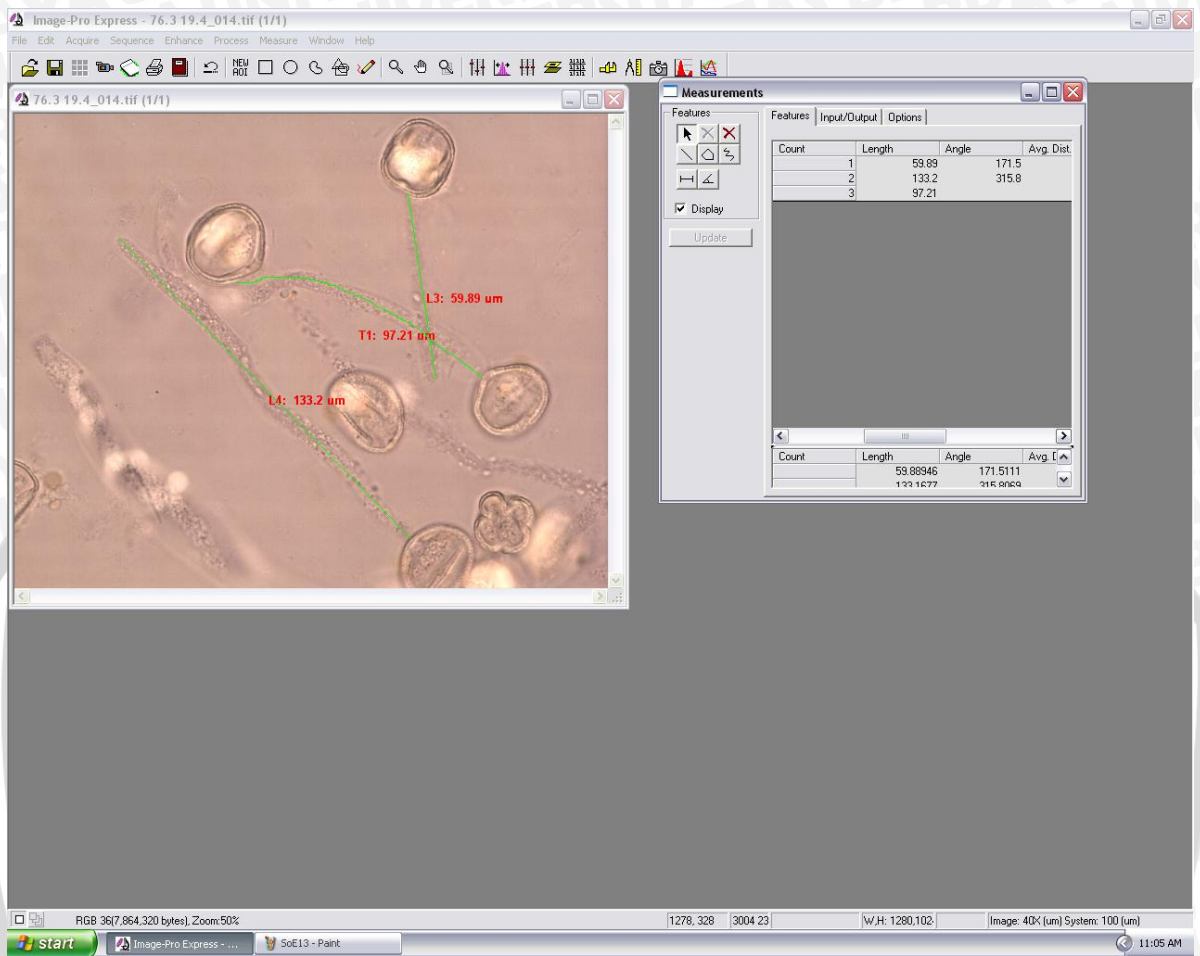


Kenampakan permukaan serbuk sari yang berpori dengan perbesaran mikroskopis maksimal 1000x.



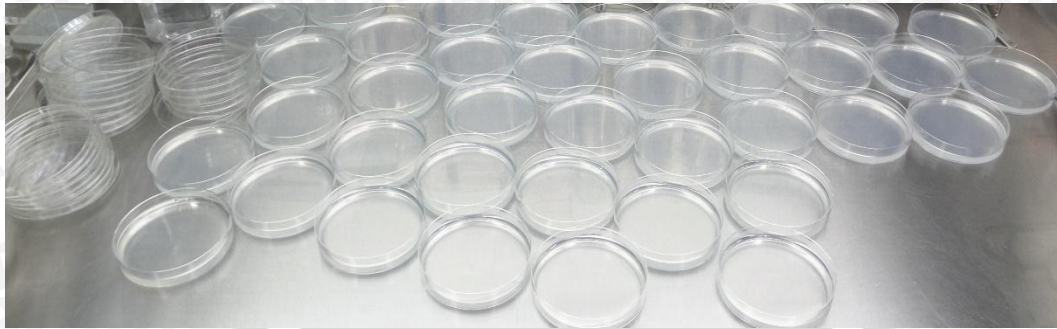
Proses penyerapan zat acetocarmine (a) cairan acetocarmine, (b) serbuk sari yang sudah mengembang dan berubah warna setelah terkena gas asam acetocarmine, (c) serbuk sari yang belum mengembang (normal).

Lampiran 7. Contoh perhitungan panjang tabung sari menggunakan *software microscopic Image – Pro Express*.

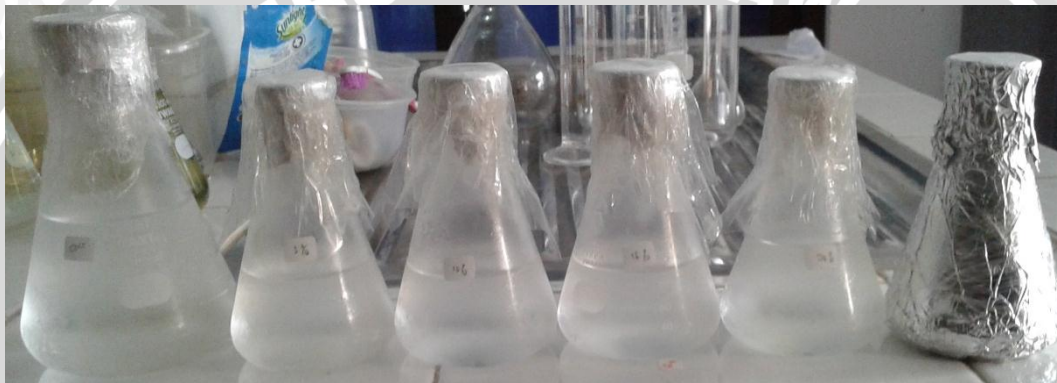


Berikut merupakan gambar perhitungan panjang tabung dari serbuk sari SoE menggunakan *software microscopic Image – Pro Express* yang secara otomatis mampu menghitung panjang tabung sari sesuai dengan perbesaran yang digunakan pada saat pengamatan.

Lampiran 8. Gambar Media Serbuk Sari dan *chamber*.



Gambar Media padat serbuk sari



Gambar Berurutan dari kiri ke kanan: media cair M2, media cair dengan kandungan glukosa (5%, 10%, 15%, 20%) dan *acetocarmine*.



Gambar *chamber* (ruang kultur serbuk sari)