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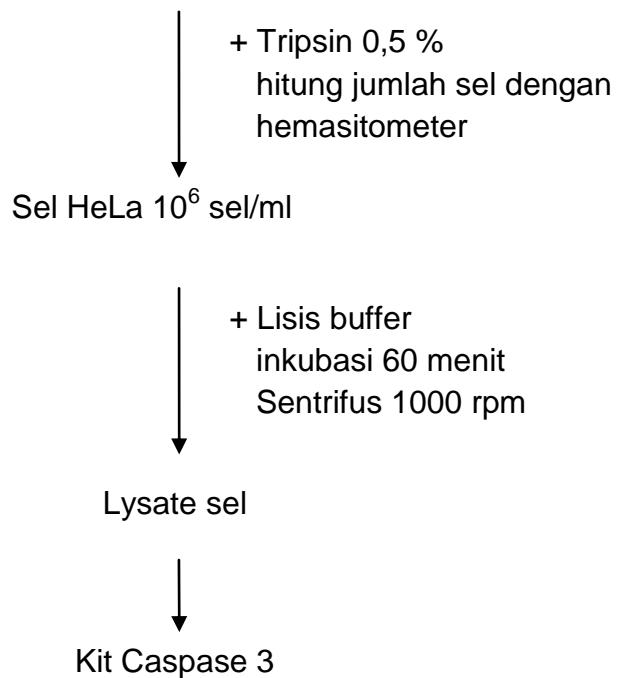
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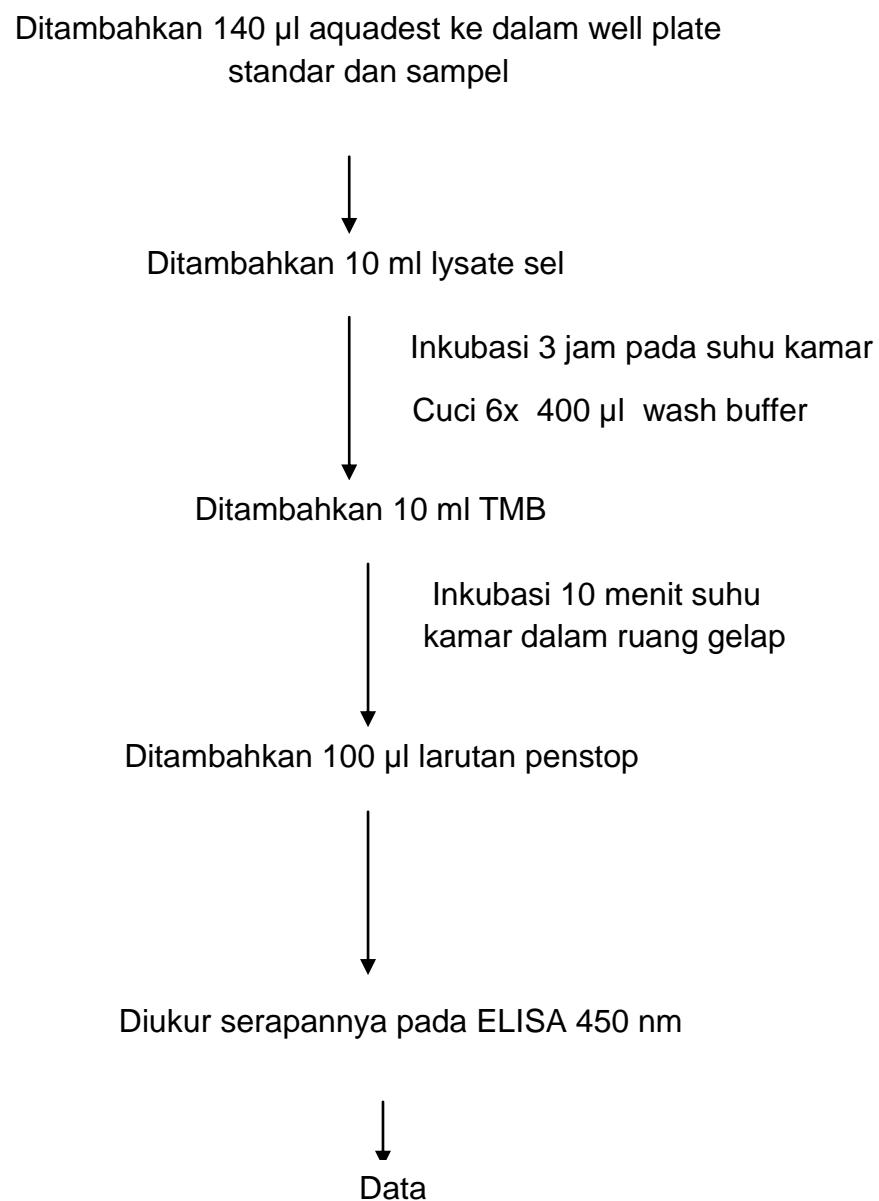
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Lampiran 1. Penyiapan Uji Caspase-3

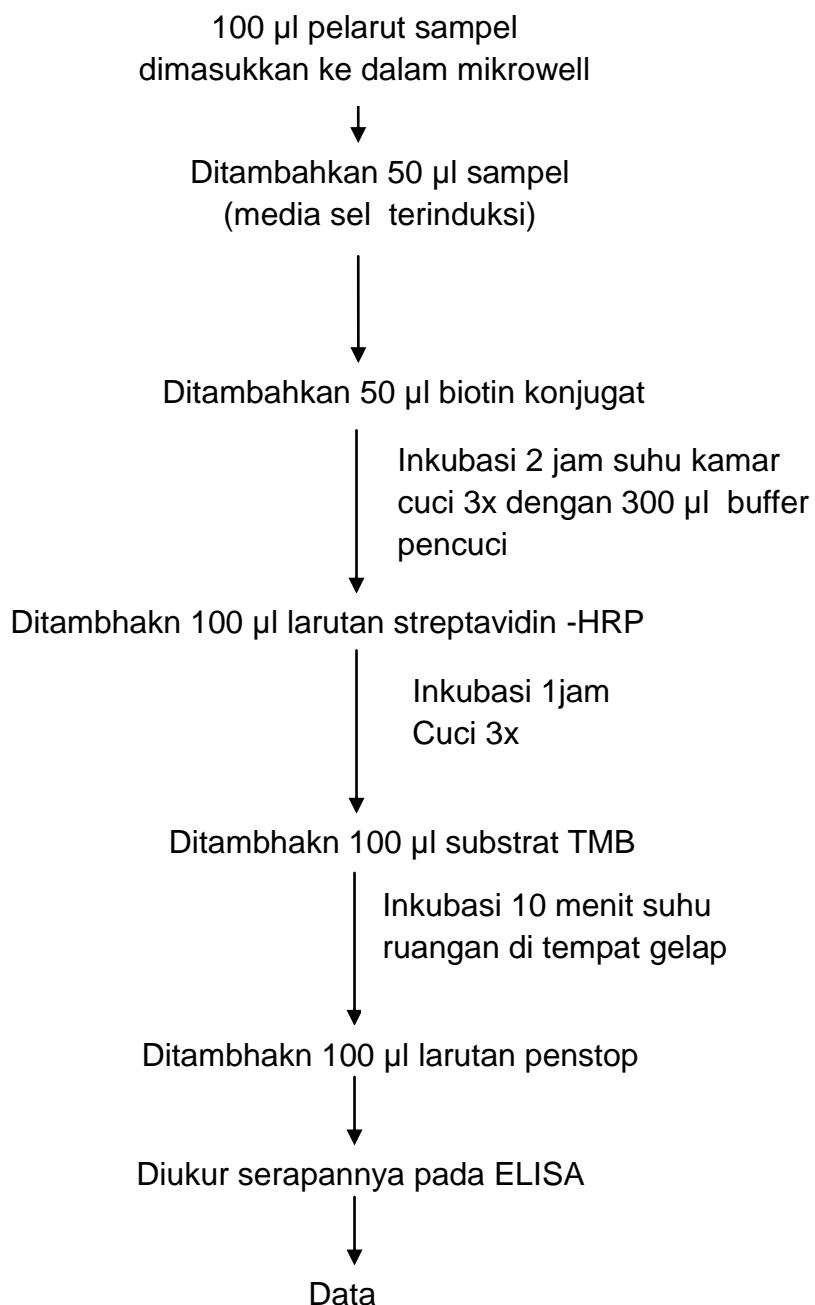
Sel hasil induksi



Lampiran 2. Uji Aktivitas Caspase-3



Lampiran 3. Uji Aktivitas p53



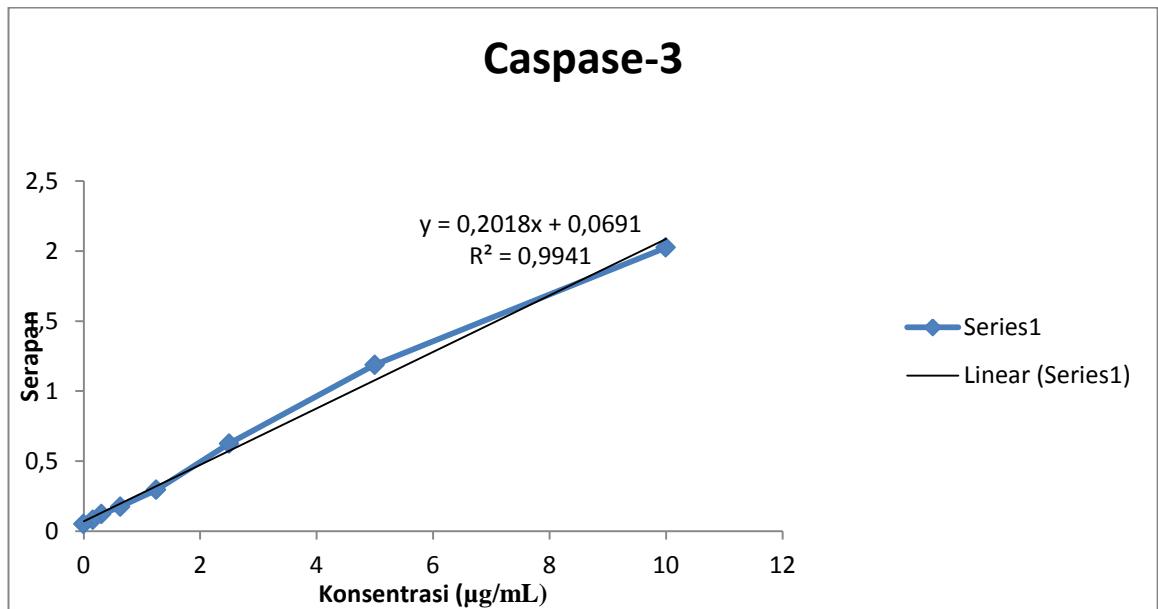
Lampiran 4. Data hasil Elisa caspase-3 aktif yang diekspresikan oleh sel HeLa setelah di induksi dengan Curcusone B, jatrophone dan jatropholone A

	Konsentrasi ($\mu\text{g/mL}$)	Serapan 1	Serapan 2	Rata-rata	
Standar	10.00	1.945	2.104	2.025	
	5.00	1.205	1.169	1.187	
	2.50	0.602	0.648	0.625	
	1.25	0.301	0.286	0.294	
	0.63	0.173	0.177	0.175	
	0.31	0.129	0.113	0.121	
	0.16	0.073	0.086	0.080	
	0.0	0.053	0.049	0.051	
Sampel	Konsentrasi (μM)	Serapan 1	Serapan 2	Serapan 3	Rata-rata
Curcusone B	39,2	0.347	0.465	0.397	0.403
	19,6	0.313	0.341	0.321	0.325
	9,8	0.294	0.254	0.256	0.268
Jatrophone	10,26	0.631	0.538	0.602	0.590
	5,13	0.361	0.395	0.401	0.386
	2,56	0.273	0.329	0.318	0.307
Jatrophone A	72,3	0.721	0.742	0.678	0.714
	36,15	0.452	0.374	0.475	0.434
	18,25	0.212	0.222	0.223	0.219
Kontrol Negatif	-	0.137	0.163	0.163	0.154

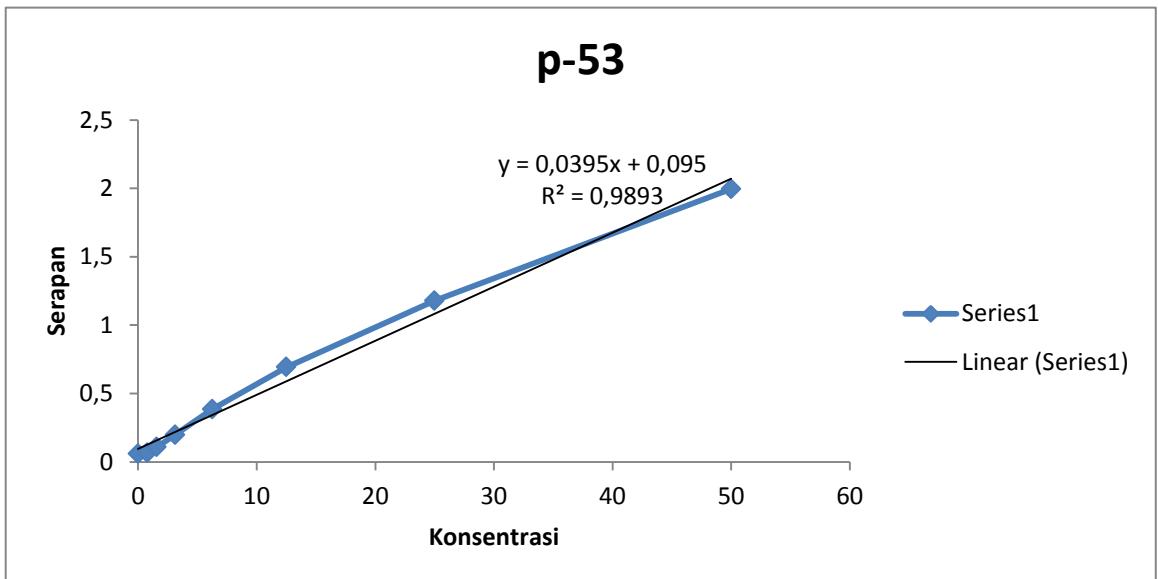
Lampiran 5. Data hasil Elisa p-53 aktif yang diekspresikan oleh sel HeLa setelah diinduksi dengan Curcusone B, Jatrophone, dan Jatropholone A

	Konsentrasi ($\mu\text{g/mL}$)	Serapan 1	Serapan 2	Rata-rata	
Standar	0,00	0,058	0,058	0,058	
	0,78	0,063	0,067	0,065	
	1,56	0,123	0,092	1,108	
	3,13	0,201	0,195	0,198	
	6,25	0,371	0,399	0,385	
	12,50	0,676	0,710	0,693	
	25,00	1,242	1,114	1,178	
	50,00	2,042	1,947	1,995	
Sampel	Konsentrasi (μM)	Serapan 1	Serapan 2	Serapan 3	Rata- rata
Curcusone B	39,2	0,632	0,642	0,622	0,632
	19,6	0,521	0,522	0,502	0,515
	9,8	0,321	0,372	0,332	0,342
Jatrophone	10,26	0,641	0,742	0,711	0,698
	5,13	0,512	0,483	0,493	0,496
	2,56	0,439	0,472	0,429	0,447
Jatrophone A	72,3	0,194	0,291	0,271	0,252
	36,15	0,184	0,203	0,196	0,194
	18,25	0,203	0,156	0,177	0,179
Kontrol Negatif	-	0,134	0,146	0,170	0,150

Lampiran 6. Kurva Standar Caspase-3 dan p53



Gambar 14. Kurva hubungan konsentrasi Caspase-3 aktif (µg/mL) dan absorbansi



Gambar 15. Kurva hubungan konsentrasi p53 aktif (µg/mL) dan absorbansi

Lampiran 7. Perhitungan Hasil Regresi Caspase-3

$$Y = 0,201x + 0,069$$

1. a. Curcusone B (39,2 μM)

$$0,403 = 0,201 x + 0,069$$

$$0,403 - 0,069 = 0,201 x$$

$$0,334 = 0,201 x$$

$$x = 1,66$$

b. Curcusone B (19,6 μM)

$$0,325 = 0,201 x + 0,069$$

$$0,325 - 0,069 = 0,201 x$$

$$0,256 = 0,201 x$$

$$x = 1,27$$

c. Curcusone B (9,8 μM)

$$0,268 = 0,201 x + 0,069$$

$$0,268 - 0,069 = 0,201 x$$

$$0,199 = 0,201 x$$

$$x = 0,99$$

2. a. Jatropheone (10,26 μM)

$$0,590 = 0,201 x + 0,069$$

$$0,590 - 0,069 = 0,201 x$$

$$0,521 = 0,201 x$$

$$x = 2,59$$

b. Jatrophone (5,13 µM)

$$0,386 = 0,201 x + 0,069$$

$$0,386 - 0,069 = 0,201 x$$

$$0,317 = 0,201 x$$

$$x = 1,57$$

c. Jatrophone (2,56 µM)

$$0,307 = 0,201 x + 0,069$$

$$0,307 - 0,069 = 0,201 x$$

$$0,238 = 0,201 x$$

$$x = 1,18$$

3. a. Jatropholone A (72,3 µM)

$$0,714 = 0,201 x + 0,069$$

$$0,714 - 0,069 = 0,201 x$$

$$0,645 = 0,201 x$$

$$x = 3,20$$

b. Jatropholone A (36,15 µM)

$$0,434 = 0,201 x + 0,069$$

$$0,434 - 0,069 = 0,201 x$$

$$0,385 = 0,201 x$$

$$x = 1,81$$

c. Jatropholone A (18,25 µM)

$$0,219 = 0,201 x + 0,069$$

$$0,219 - 0,069 = 0,201 x$$

$$0,365 = 0,201 x$$

$$x = 0,74$$

4. Kontrol Negatif

$$0,154 = 0,201 x + 0,069$$

$$0,154 - 0,069 = 0,201 x$$

$$0,085 = 0,201 x$$

$$x = 0,421$$

Lampiran 8. Perhitungan Hasil Regresi p53

$$Y = 0,039 x + 0,095$$

1. a. Curcusone B (39,2 μ M)

$$0,632 = 0,039 x + 0,095$$

$$0,632 - 0,095 = 0,039 x$$

$$0,537 = 0,039 x$$

$$x = 13,76$$

b. Curcusone B (19,6 μ M)

$$0,515 = 0,039 x + 0,095$$

$$0,515 - 0,095 = 0,039 x$$

$$0,42 = 0,039 x$$

$$x = 10,76$$

c. Curcusone B (9,8 μ M)

$$0,342 = 0,039 x + 0,095$$

$$0,342 - 0,095 = 0,039 x$$

$$0,247 = 0,039 x$$

$$x = 6,33$$

2. a. Jatrophone (10,26 μ M)

$$0,698 = 0,039 x + 0,095$$

$$0,698 - 0,095 = 0,093 x$$

$$0,603 = 0,093 x$$

$$x = 15,46$$

b. Jatrophone (5,13 µM)

$$0,469 = 0,039 x + 0,095$$

$$0,495 - 0,095 = 0,039 x$$

$$0,401 = 0,039 x$$

$$x = 10,28$$

c. Jatrophone (2,56 µM)

$$0,447 = 0,039 x + 0,095$$

$$0,447 - 0,095 = 0,039 x$$

$$0,352 = 0,039 x$$

$$x = 9,02$$

3. a. Jatropholone A (72,3 µM)

$$0,252 = 0,039 x + 0,095$$

$$0,252 - 0,095 = 0,039 x$$

$$0,157 = 0,039 x$$

$$x = 4,02$$

b. Jatrophone A (36,15 µM)

$$0,194 = 0,039 x + 0,095$$

$$0,194 - 0,095 = 0,039 x$$

$$0,099 = 0,039 x$$

$$x = 2,53$$

c. Jatrophone A (18,25 µM)

$$0,179 = 0,039 x + 0,095$$

$$0,179 - 0,095 = 0,039 x$$

$$0,084 = 0,039 x$$

$$x = 2,15$$

4. Kontrol Negatif

$$0,170 = 0,039 x + 0,095$$

$$0,170 - 0,095 = 0,039 x$$

$$0,075 = 0,039 x$$

$$x = 1,92$$

Lampiran 9. Gambar



Gambar 16. Isolat Curcusone B

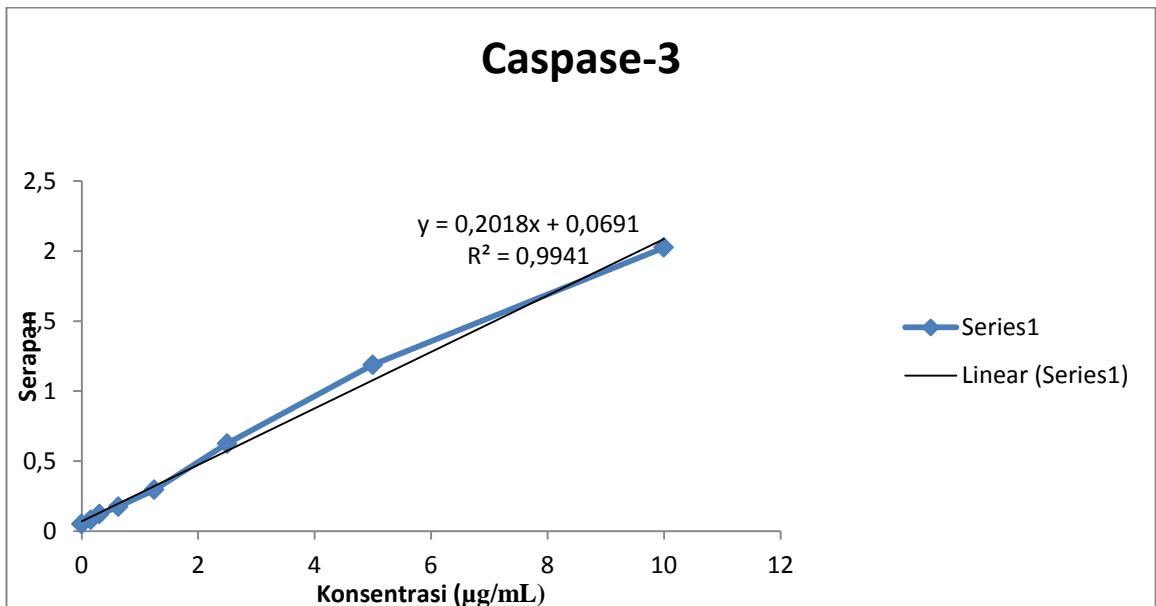


Gambar 17. Isolat Jatrophone (A), Isolat Jatropholone A (B)

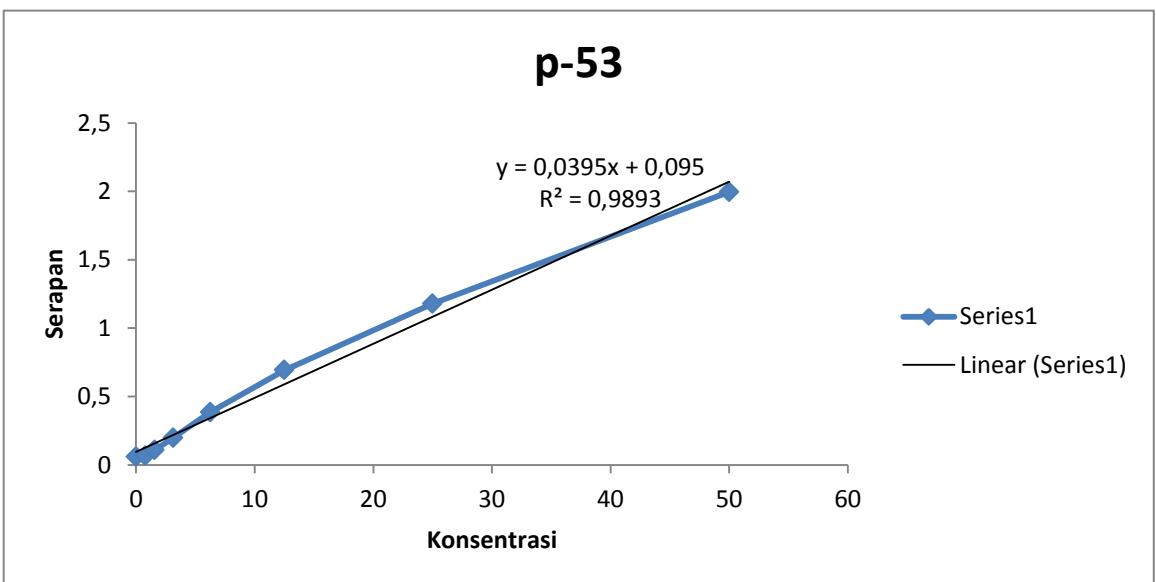
Lampiran 5. Data hasil Elisa p-53 aktif yang diekspresikan oleh sel HeLa setelah diinduksi dengan Curcusone B, Jatrophone, dan Jatropholone A

	Konsentrasi ($\mu\text{g/mL}$)	Serapan 1	Serapan 2	Rata-rata	
Standar	0,00	0,058	0,058	0,058	
	0,78	0,063	0,067	0,065	
	1,56	0,123	0,092	1,108	
	3,13	0,201	0,195	0,198	
	6,25	0,371	0,399	0,385	
	12,50	0,676	0,710	0,693	
	25,00	1,242	1,114	1,178	
	50,00	2,042	1,947	1,995	
Sampel	Konsentrasi (μM)	Serapan 1	Serapan 2	Serapan 3	Rata- rata
Curcusone B	39,2	0,632	0,642	0,622	0,632
	19,6	0,521	0,522	0,502	0,515
	9,8	0,321	0,372	0,332	0,342
Jatrophone	10,26	0,641	0,742	0,711	0,698
	5,13	0,512	0,483	0,493	0,496
	2,56	0,439	0,472	0,429	0,447
Jatrophone A	72,3	0,194	0,291	0,271	0,252
	36,15	0,184	0,203	0,196	0,194
	18,25	0,203	0,156	0,177	0,179
Kontrol Negatif	-	0,134	0,146	0,170	0,150

Lampiran 6. Kurva Standar Caspase-3 dan p53



Gambar 14. Kurva hubungan konsentrasi Caspase-3 aktif (µg/mL) dan absorbansi



Gambar 15. Kurva hubungan konsentrasi p53 aktif (µg/mL) dan absorbansi

Lampiran 7. Perhitungan Hasil Regresi Caspase-3

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$$x = 13,76$$

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$$0,170 = 0,039 x + 0,095$$

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$$x = 1,92$$

Lampiran 9. Gambar



Gambar 16. Isolat Curcusone B



Gambar 17. Isolat Jatrophone (A), Isolat Jatropholone A (B)

