


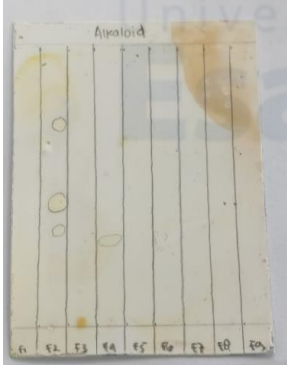

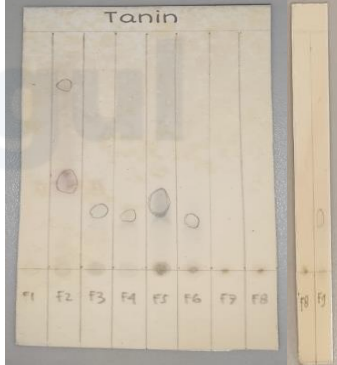


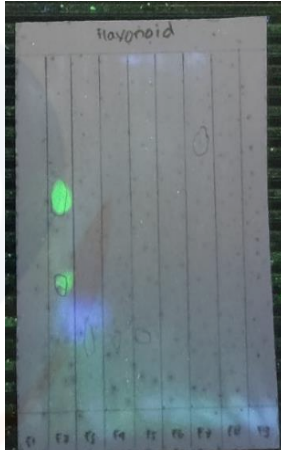








LAMPIRAN

Lampiran 1. Proses Fraksinasi dengan Metode Kromatografi Kolom dan Perhitungan Bobot Fraksi Gabungan

| Gambar | Keterangan |
|---|--|
|  | Ekstrak etanol 96% mesocarp buah lontar muda sebanyak 25 gram |
|  | Preparasi kolom dengan memasukkan sampel ekstrak etanol 96% mesocarp buah lontar muda yang telah dipreparasi dengan silika |
|  | Fraksinasi dengan metode kromatografi kolom |

Lampiran 2. Pengujian Skrining Fitokimia Fraksi Ekstrak Etanol 96% Buah Lontar Muda

| Perbandingan Etil asetat 100% | | |
|---|--|--|
| Alkaloid | Steroid/Triterpenoid | Tanin |
|  <p>+ Perekasi Wagner</p> |  <p>+ Perekasi Lieberman Burchard</p> |  <p>+ Perekasi FeCl₃ 5%</p> |
|  <p>+ Perekasi AlCl₃ 10%</p> |  <p>366 nm</p> |  <p>254 nm</p> |
| Perbandingan Metanol : Etil Asetat = 4 : 1 | | |
| Alkaloid | Steroid/Triterpenoid | Tanin |
|  |  |  |

| + Pereaksi Wagner | + Pereaksi Lieberman Burchard | + Pereaksi FeCl ₃ 5% |
|---|--|---|
| <p data-bbox="371 394 507 427">Flavonoid</p>  <p data-bbox="323 831 611 864">+ Pereaksi AlCl₃ 10%</p> | <p data-bbox="703 394 839 427">Flavonoid</p>  <p data-bbox="730 831 831 864">366 nm</p> | <p data-bbox="1026 394 1161 427">Flavonoid</p>  <p data-bbox="1054 831 1155 864">254 nm</p> |

Lampiran 3. Pengujian Aktivitas Antioksidan DPPH

Hasil Optimasi Panjang Gelombang

| Waktu | Konsentrasi | Absorbansi | | |
|----------|-------------|------------|---------------|--------|
| | | 510 nm | 515 nm | 520 nm |
| 30 menit | 100 ppm | 0,7243 | 0,7340 | 0,7307 |

Hasil Optimasi Waktu Inkubasi

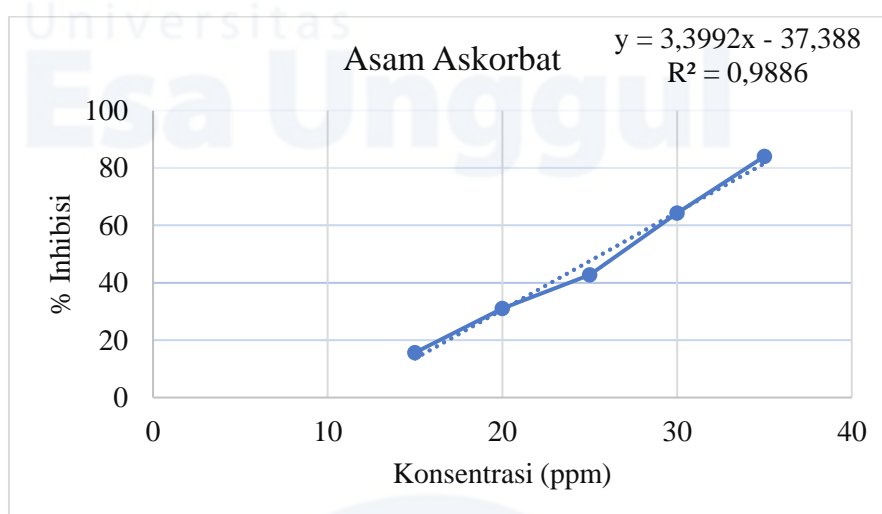
| Waktu Inkubasi | Absorbansi |
|----------------|---------------|
| 15 | 0,4510 |
| 30 | 0,5589 |
| 45 | 0,5505 |
| 60 | 0,4119 |

Hasil Optimasi Volume Pipet

| Konsentrasi DPPH | Volume pipet Metanol | Volume pipet DPPH | Total volume sumuran | Absorbansi |
|------------------|----------------------|-------------------|----------------------|------------|
| 50 ppm | 20 μ L | 180 μ L | 200 μ L | 0,5049 |
| | 80 μ L | 120 μ L | 200 μ L | 0,7833 |
| | 50 μ L | 150 μ L | 200 μ L | 0,5378 |

Hasil pengukuran kontrol vitamin C

| Konsentrasi | Blanko | Absorbansi | | | %Inhibisi | | | Rata2 %Inhibisi | SD | CV | IC50 |
|-------------|--------------|------------|-------|-------|-----------|-------|-------|-----------------|------|------|-------------------|
| | | 1x | 2x | 3x | 1x | 2x | 3x | | | | |
| 15 ppm | 0,722 | 0,622 | 0,618 | 0,621 | 15,46 | 16,02 | 15,54 | 15,67 | 0,25 | 1,57 | 25,708 μ g/mL |
| 20 ppm | 0,739 | 0,505 | 0,503 | 0,513 | 31,37 | 31,64 | 30,29 | 31,1 | 0,58 | 1,87 | |
| 25 ppm | 0,746 | 0,415 | 0,418 | 0,429 | 43,56 | 43,16 | 41,72 | 42,82 | 0,79 | 1,84 | |
| 30 ppm | 0,736 | 0,261 | 0,254 | 0,272 | 64,55 | 65,46 | 62,98 | 64,33 | 1,02 | 1,59 | |
| 35 ppm | | 0,119 | 0,117 | 0,116 | 83,77 | 84,08 | 84,26 | 84,04 | 0,2 | 0,24 | |



Hasil pengukuran aktivitas antioksidan DPPH pada fraksi ekstrak etanol 96% mesocarp buah lontar muda

| Fraksi 2 | | | | | | | | | | |
|-----------------|--------|-------|--------|--------------|--------------|--------------|---------------|-------|-------|-----------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata-rata | SD | CV | ic50 |
| 1000 ppm | 0,397 | 0,391 | 0,394 | 47,28 | 48,05 | 47,61 | 47,65 | 0,387 | 0,008 | 1440,6 µg/mL |
| 2500 ppm | 0,358 | 0,357 | 0,359 | 52,44 | 52,48 | 52,29 | 52,409 | 0,103 | 0,002 | |
| 4000 ppm | 0,319 | 0,319 | 0,210 | 57,60 | 57,58 | 72,02 | 62,403 | 8,326 | 0,133 | |
| 5500 ppm | 0,230 | 0,231 | 0,231 | 69,40 | 69,23 | 69,32 | 69,319 | 0,086 | 0,001 | |
| 7000 ppm | 0,170 | 0,178 | 0,177 | 77,39 | 76,25 | 76,44 | 76,695 | 0,613 | 0,008 | |
| Blanko | 0,7526 | 0,717 | 0,7904 | | | | 0,7533 | | | |

| Fraksi 3 | | | | | | | | | | |
|-----------------|--------|-------|--------|--------------|--------------|--------------|---------------|-------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata-rata | SD | CV | ic50 |
| 1000 ppm | 0,497 | 0,501 | 0,495 | 34,01 | 33,46 | 34,33 | 33,93 | 0,443 | 0,013 | 4628,94 µg/mL |
| 2500 ppm | 0,458 | 0,458 | 0,459 | 39,17 | 39,21 | 39,02 | 39,13 | 0,103 | 0,003 | |
| 4000 ppm | 0,397 | 0,391 | 0,395 | 47,29 | 48,06 | 47,61 | 47,65 | 0,387 | 0,008 | |
| 5500 ppm | 0,358 | 0,358 | 0,359 | 52,45 | 52,49 | 52,29 | 52,41 | 0,103 | 0,002 | |
| 7000 ppm | 0,28 | 0,279 | 0,281 | 62,79 | 62,98 | 62,69 | 62,82 | 0,148 | 0,002 | |
| Blanko | 0,7526 | 0,717 | 0,7904 | | | | 0,7533 | | | |

| Fraksi 4 | | | | | | | | | | |
|-------------|--------|--------|--------|--------------|--------------|--------------|---------------|-------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata - rata | SD | CV | ic50 |
| 1000 ppm | 0,579 | 0,573 | 0,569 | 25,284 | 26,03 | 26,55 | 25,96 | 0,636 | 0,025 | 4469,74 µg/mL |
| 2500 ppm | 0,491 | 0,489 | 0,496 | 36,62 | 36,88 | 35,92 | 36,47 | 0,494 | 0,014 | |
| 4000 ppm | 0,404 | 0,41 | 0,407 | 47,904 | 47,04 | 47,41 | 47,45 | 0,434 | 0,009 | |
| 5500 ppm | 0,318 | 0,311 | 0,317 | 59,008 | 59,82 | 59,1 | 59,31 | 0,446 | 0,008 | |
| 7000 ppm | 0,233 | 0,24 | 0,229 | 69,892 | 69,03 | 70,45 | 69,79 | 0,716 | 0,01 | |
| Blanko | 0,7673 | 0,7766 | 0,7904 | | | | 0,7745 | | | |

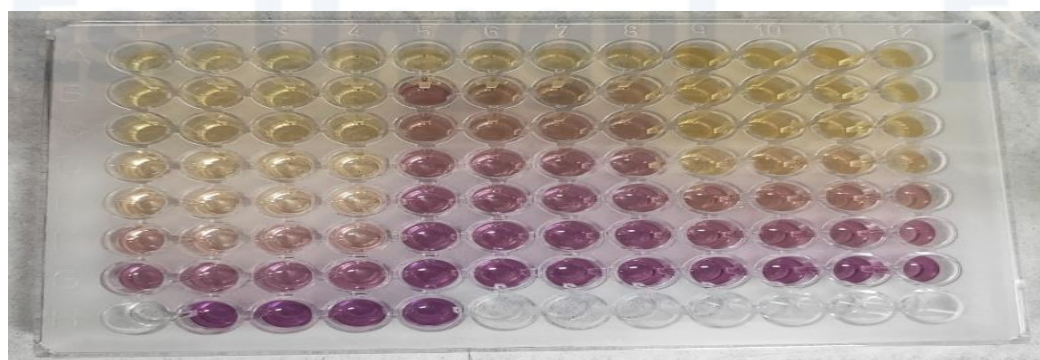
| Fraksi 5 | | | | | | | | | | |
|-------------|--------|-------|--------|--------------|--------------|--------------|---------------|-------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata - rata | SD | CV | ic50 |
| 1000 ppm | 0,487 | 0,482 | 0,477 | 35,309 | 35,97 | 36,65 | 35,98 | 0,672 | 0,019 | 3477,37 µg/mL |
| 2500 ppm | 0,419 | 0,421 | 0,418 | 44,365 | 44,14 | 44,5 | 44,34 | 0,184 | 0,004 | |
| 4000 ppm | 0,351 | 0,348 | 0,363 | 53,42 | 53,85 | 51,83 | 53,03 | 1,064 | 0,02 | |
| 5500 ppm | 0,299 | 0,297 | 0,296 | 60,257 | 60,54 | 60,65 | 60,48 | 0,204 | 0,003 | |
| 7000 ppm | 0,218 | 0,229 | 0,221 | 71,049 | 69,56 | 70,61 | 70,41 | 0,764 | 0,011 | |
| Blanko | 0,7526 | 0,717 | 0,7526 | | | | 0,7533 | | | |

| Fraksi 6 | | | | | | | | | | |
|-------------|--------|--------|--------|--------------|--------------|--------------|---------------|-------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata - rata | SD | CV | ic50 |
| 1000 ppm | 0,411 | 0,418 | 0,454 | 46,011 | 45,05 | 40,31 | 43,79 | 3,053 | 0,07 | 2034,57 µg/mL |
| 2500 ppm | 0,342 | 0,348 | 0,359 | 55,049 | 54,35 | 52,8 | 54,07 | 1,15 | 0,021 | |
| 4000 ppm | 0,308 | 0,318 | 0,315 | 59,567 | 58,2 | 58,66 | 58,81 | 0,695 | 0,012 | |
| 5500 ppm | 0,269 | 0,26 | 0,258 | 64,651 | 65,82 | 66,12 | 65,53 | 0,777 | 0,012 | |
| 7000 ppm | 0,204 | 0,218 | 0,212 | 73,242 | 71,42 | 72,22 | 72,29 | 0,915 | 0,013 | |
| Blanko | 0,7537 | 0,7621 | 0,7682 | | | | 0,7613 | | | |

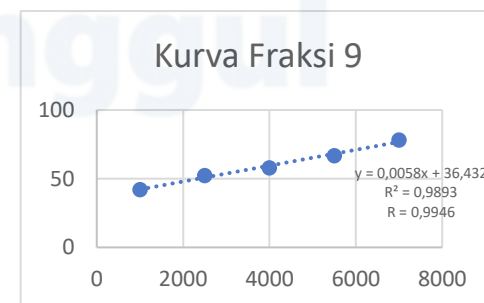
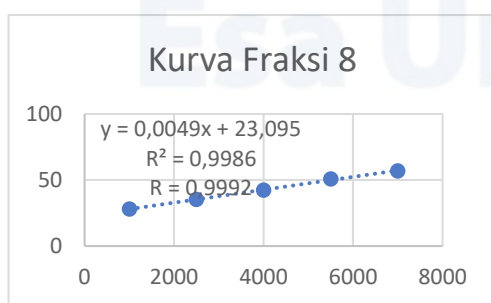
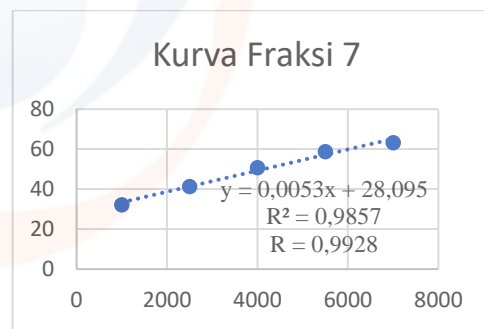
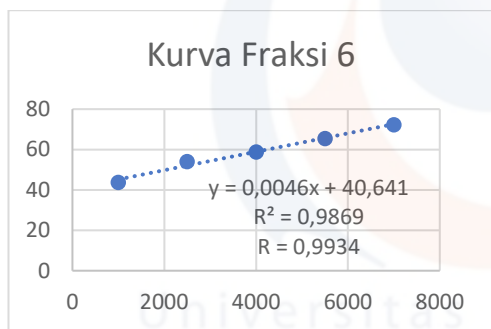
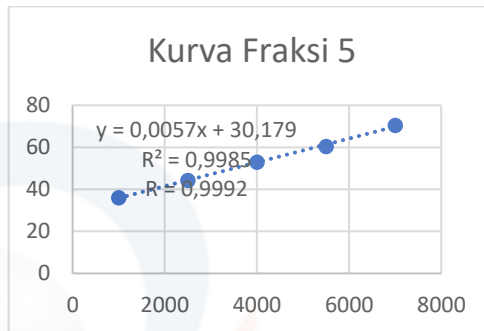
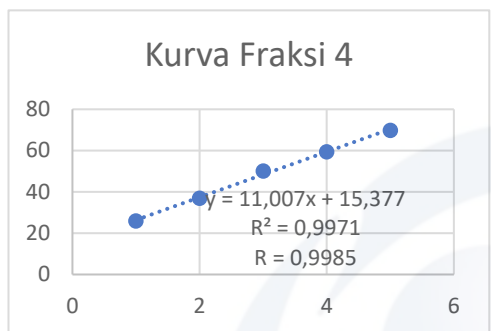
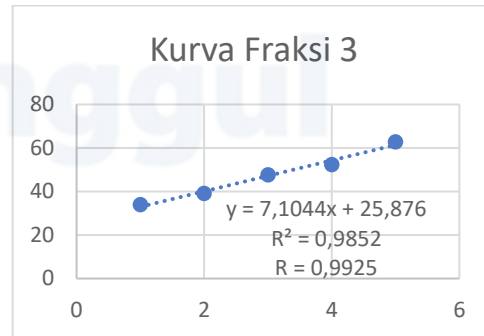
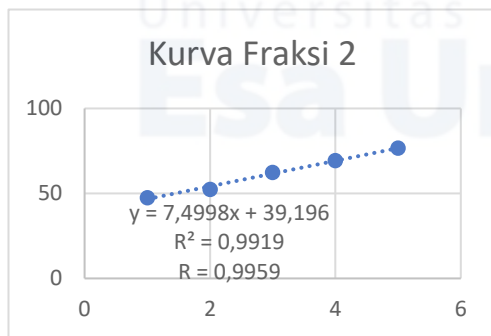
| Fraksi 7 | | | | | | | | | | |
|-------------|--------|--------|--------|--------------|--------------|--------------|---------------|-------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata - rata | SD | CV | ic50 |
| 1000 ppm | 0,519 | 0,509 | 0,519 | 31,785 | 33,2 | 31,84 | 32,28 | 0,804 | 0,025 | 4133,02 µg/mL |
| 2500 ppm | 0,447 | 0,451 | 0,441 | 41,256 | 40,72 | 42,06 | 41,34 | 0,674 | 0,016 | |
| 4000 ppm | 0,369 | 0,379 | 0,377 | 51,515 | 50,18 | 50,45 | 50,71 | 0,708 | 0,014 | |
| 5500 ppm | 0,311 | 0,313 | 0,319 | 59,186 | 58,91 | 58,12 | 58,74 | 0,552 | 0,009 | |
| 7000 ppm | 0,271 | 0,288 | 0,279 | 64,375 | 62,13 | 63,34 | 63,28 | 1,124 | 0,018 | |
| Blanko | 0,7535 | 0,7621 | 0,7682 | | | | 0,7613 | | | |

| Fraksi 8 | | | | | | | | | | |
|-------------|--------|--------|--------|--------------|--------------|--------------|---------------|------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata-rata | SD | CV | ic50 |
| 1000 ppm | 0,54 | 0,55 | 0,55 | 28,99 | 27,52 | 27,61 | 28,04 | 0,82 | 0,03 | 5490,82 µg/mL |
| 2500 ppm | 0,49 | 0,49 | 0,49 | 35,08 | 35,32 | 35,26 | 35,22 | 0,12 | 0,003 | |
| 4000 ppm | 0,44 | 0,44 | 0,44 | 42,42 | 42,18 | 42,26 | 42,29 | 0,12 | 0,003 | |
| 5500 ppm | 0,37 | 0,38 | 0,38 | 51,28 | 50,44 | 50,32 | 50,68 | 0,52 | 0,01 | |
| 7000 ppm | 0,32 | 0,33 | 0,33 | 57,92 | 56,8 | 56,12 | 56,95 | 0,91 | 0,02 | |
| Blanko | 0,7535 | 0,7621 | 0,7682 | | | | 0,7613 | | | |

| Fraksi 9 | | | | | | | | | | |
|-------------|--------|--------|--------|--------------|--------------|--------------|---------------|-------|-------|------------------|
| Konsentrasi | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata-rata | SD | CV | ic50 |
| 1000 | 0,451 | 0,452 | 0,441 | 41,826 | 41,673 | 43,095 | 42,19 | 0,78 | 0,018 | 2339,31 µg/mL |
| 2500 | 0,424 | 0,342 | 0,343 | 45,322 | 55,794 | 55,731 | 52,28 | 6,028 | 0,115 | |
| 4000 | 0,322 | 0,337 | 0,315 | 58,38 | 56,465 | 59,292 | 58,04 | 1,442 | 0,024 | |
| 5500 | 0,26 | 0,257 | 0,256 | 66,449 | 66,825 | 66,972 | 66,74 | 0,27 | 0,004 | |
| 7000 | 0,169 | 0,169 | 0,168 | 78,134 | 78,198 | 78,301 | 78,21 | 0,084 | 0,001 | |
| Blanko | 0,7673 | 0,7766 | 0,7797 | | | | 0,7745 | | | |



Gambar DPPH dan Sampel dalam microplate 96-well



Lampiran 4. Pengujian Aktivitas Antioksidan ABTS

Hasil Optimasi Panjang Gelombang

| Waktu | Konsentrasi | Absorbansi | | |
|----------|-------------|------------|---------------|--------|
| | | 742 nm | 744 nm | 746 nm |
| 30 menit | 100 ppm | 0,7376 | 0,7390 | 0,7389 |

Hasil Optimasi Waktu Inkubasi

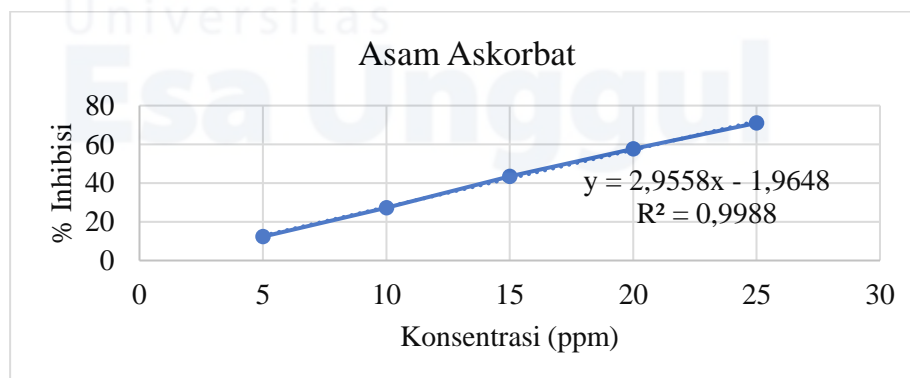
| Waktu Inkubasi | Absorbansi |
|----------------|---------------|
| 0 | 0,1142 |
| 5 | 0,0812 |
| 10 | 0,0523 |
| 15 | 0,0519 |

Hasil Optimasi Volume Pipet

| Konsentrasi | Volume Pipet Etanol | Volume pipet ABTS | Total Volume Sumuran | Absorbansi |
|--------------------------------------|---------------------|-------------------|----------------------|---------------|
| Larutan ABTS ditambah etanol ad 10mL | 40 μ L | 160 μ L | 200 μ L | 0,7391 |
| | 50 μ L | 150 μ L | 200 μ L | 0,6909 |

Hasil pengukuran kontrol vitamin C

| Konsentrasi | Absorbansi | | | %Inhibisi | | | Rata-Rata %Inhibisi | SD | CV | IC ₅₀ |
|-------------|------------|--------|--------|-----------|--------|--------|---------------------|-------|--------|--------------------|
| | 1x | 2x | 3x | 1x | 2x | 3x | | | | |
| 5 ppm | 0,666 | 0,665 | 0,664 | 12,199 | 12,265 | 12,476 | 12,313 | 5,453 | 43,711 | 17,5806 μ g/mL |
| 10 ppm | 0,5489 | 0,549 | 0,556 | 27,637 | 27,61 | 26,74 | 27,329 | 12,76 | 47,718 | |
| 15 ppm | 0,4199 | 0,428 | 0,438 | 44,643 | 43,628 | 42,244 | 43,505 | 20,6 | 48,773 | |
| 20 ppm | 0,3096 | 0,327 | 0,326 | 59,184 | 56,851 | 57,009 | 57,681 | 27,21 | 47,734 | |
| 25 ppm | 0,2259 | 0,217 | 0,216 | 70,219 | 71,366 | 71,511 | 71,032 | 33,27 | 46,529 | |
| Blanko | 0,7517 | 0,7472 | 0,7767 | | | | 0,75853 | | | |



Hasil pengukuran aktivitas antioksidan ABTS

| Fraksi 2 | | | | | | | | | | |
|-------------------|------------|--------|--------|-----------|--------|--------|-----------------|------|-------|------------------|
| Konsentrasi (ppm) | Absorbansi | | | %Inhibisi | | | Rata2 %Inhibisi | SD | CV | IC ₅₀ |
| | 1x | 2x | 3x | 1 | 2 | 3 | | | | |
| 1000 | 0,4666 | 0,4978 | 0,5192 | 40,177 | 36,177 | 33,433 | 36,596 | 3,39 | 0,093 | 1432,24 µg/mL |
| 2500 | 0,244 | 0,2559 | 0,2497 | 68,717 | 67,191 | 67,986 | 67,964 | 0,76 | 0,011 | |
| 4000 | 0,1815 | 0,1941 | 0,1801 | 76,73 | 75,114 | 76,909 | 76,251 | 0,99 | 0,013 | |
| 5500 | 0,0862 | 0,0866 | 0,0825 | 88,948 | 88,897 | 89,423 | 89,089 | 0,29 | 0,003 | |
| 7000 | 0,0706 | 0,0909 | 0,0698 | 90,948 | 88,346 | 91,051 | 90,115 | 1,53 | 0,017 | |
| Blanko | 0,7607 | 0,7877 | 0,7915 | | | | 0,7799 | | | |

| Fraksi 3 | | | | | | | | | | |
|-------------------|--------|--------|--------|------------|------------|------------|---------------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi | % inhibisi | % inhibisi | Rata rata | SD | CV | IC ₅₀ |
| | | | | 1 | 2 | 3 | | | | |
| 1000 | 0,7484 | 0,742 | 0,7266 | 4,0472 | 4,8677 | 6,8422 | 5,2524 | 1,44 | 0,274 | 5222,41 µg/mL |
| 2500 | 0,6783 | 0,6695 | 0,6413 | 13,035 | 14,163 | 17,779 | 14,992 | 2,48 | 0,165 | |
| 4000 | 0,5026 | 0,5747 | 0,488 | 35,561 | 26,317 | 37,433 | 33,104 | 5,95 | 0,18 | |
| 5500 | 0,3083 | 0,324 | 0,339 | 60,473 | 58,46 | 56,537 | 58,49 | 1,97 | 0,034 | |
| 7000 | 0,2531 | 0,2281 | 0,2368 | 67,55 | 70,755 | 69,64 | 69,315 | 1,63 | 0,023 | |
| Blanko | 0,7607 | 0,7877 | 0,7915 | | | | 0,7799 | | | |

| Fraksi 4 | | | | | | | | | | |
|-------------------|--------|--------|-------|--------------|--------------|--------------|---------------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata rata | SD | CV | IC ₅₀ |
| 1000 | 0,6101 | 0,619 | 0,62 | 16,463 | 15,299 | 15,176 | 15,646 | 0,71 | 0,045 | 5111,86 µg/mL |
| 2500 | 0,5658 | 0,571 | 0,563 | 22,529 | 21,83 | 22,885 | 22,414 | 0,54 | 0,024 | |
| 4000 | 0,3928 | 0,399 | 0,39 | 46,216 | 45,313 | 46,654 | 46,061 | 0,68 | 0,015 | |
| 5500 | 0,3143 | 0,306 | 0,319 | 56,965 | 58,06 | 56,362 | 57,129 | 0,86 | 0,015 | |
| 7000 | 0,2751 | 0,271 | 0,278 | 62,332 | 62,866 | 61,894 | 62,364 | 0,49 | 0,008 | |
| Blanko | 0,7094 | 0,7426 | 0,739 | | | | 0,7303 | | | |

| Fraksi 5 | | | | | | | | | | |
|-------------------|--------|--------|--------|--------------|--------------|--------------|---------------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata rata | SD | CV | IC ₅₀ |
| 1000 | 0,6686 | 0,663 | 0,655 | 14,278 | 14,958 | 16,086 | 15,107 | 0,91 | 0,06 | 4128,83 µg/mL |
| 2500 | 0,5226 | 0,524 | 0,515 | 32,997 | 32,766 | 33,984 | 33,249 | 0,65 | 0,019 | |
| 4000 | 0,3827 | 0,38 | 0,383 | 50,934 | 51,267 | 50,947 | 51,049 | 0,19 | 0,004 | |
| 5500 | 0,2634 | 0,252 | 0,267 | 66,229 | 67,704 | 65,806 | 66,58 | 1 | 0,015 | |
| 7000 | 0,1844 | 0,175 | 0,175 | 76,358 | 77,589 | 77,525 | 77,157 | 0,69 | 0,009 | |
| Blanko | 0,7607 | 0,7877 | 0,7915 | | | | 0,7799 | | | |

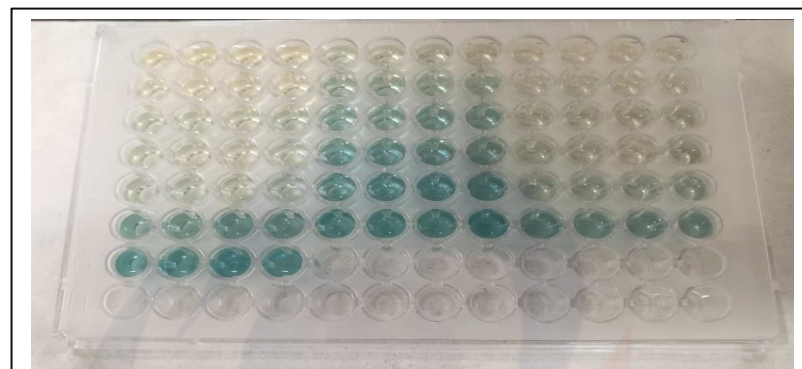
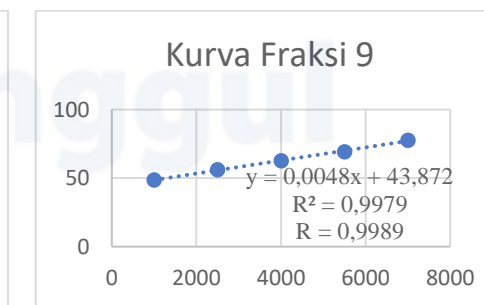
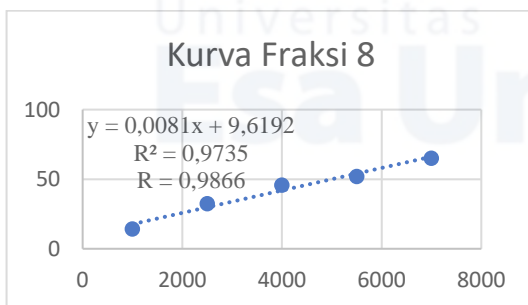
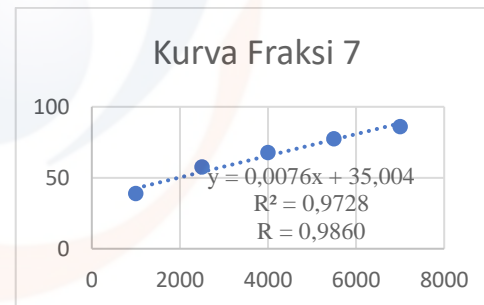
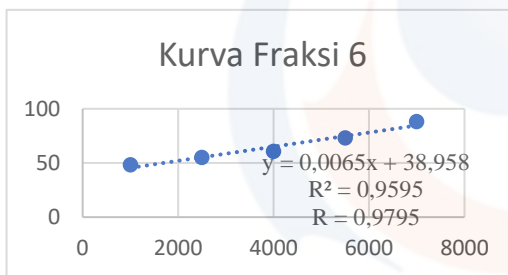
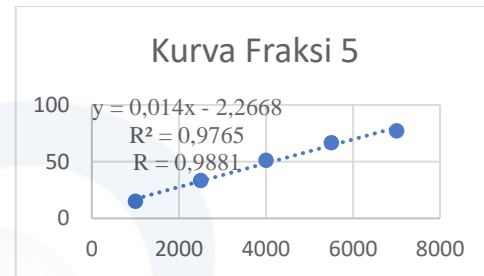
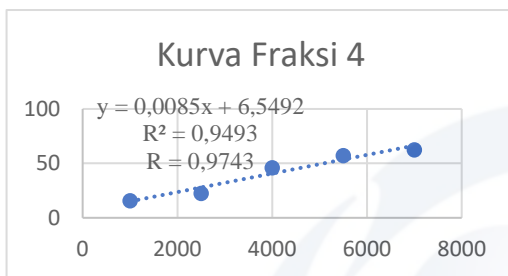
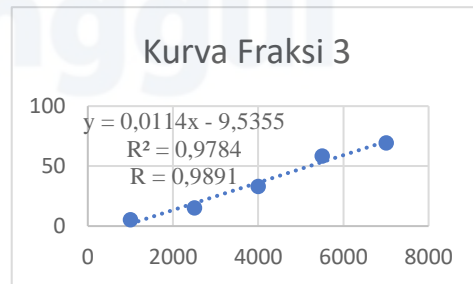
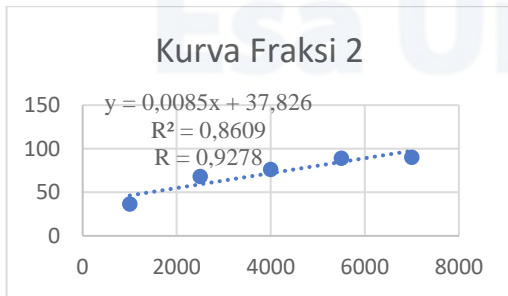
| Fraksi 6 | | | | | | | | | | |
|-------------------|--------|--------|-------|--------------|--------------|--------------|---------------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata rata | SD | CV | IC ₅₀ |
| 1000 | 0,3868 | 0,379 | 0,368 | 47,038 | 48,051 | 49,639 | 48,243 | 1,31 | 0,027 | 1698,77 µg/mL |
| 2500 | 0,3211 | 0,327 | 0,339 | 56,034 | 55,24 | 53,597 | 54,957 | 1,24 | 0,023 | |
| 4000 | 0,2809 | 0,292 | 0,287 | 61,538 | 60,059 | 60,703 | 60,767 | 0,74 | 0,012 | |
| 5500 | 0,1902 | 0,199 | 0,198 | 73,957 | 72,766 | 72,862 | 73,195 | 0,66 | 0,009 | |
| 7000 | 0,0997 | 0,095 | 0,068 | 86,349 | 87,047 | 90,662 | 88,019 | 2,32 | 0,026 | |
| Blanko | 0,7094 | 0,7426 | 0,739 | | | | 0,7303 | | | |

| Fraksi 7 | | | | | | | | | | |
|-------------------|--------|-------|-------|--------------|--------------|--------------|-----------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata rata | SD | CV | IC ₅₀ |
| 1000 | 0,3415 | 0,348 | 0,351 | 39,735 | 38,641 | 38,147 | 38,841 | 0,81 | 0,021 | 1973,16 µg/mL |
| 2500 | 0,2394 | 0,237 | 0,246 | 57,753 | 58,247 | 56,518 | 57,506 | 0,89 | 0,015 | |
| 4000 | 0,1815 | 0,184 | 0,185 | 67,971 | 67,565 | 67,371 | 67,635 | 0,31 | 0,005 | |
| 5500 | 0,1255 | 0,127 | 0,13 | 77,853 | 77,518 | 77,094 | 77,488 | 0,38 | 0,005 | |

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|---------------|------|-------|
| 7000 | 0,0882 | 0,082 | 0,068 | 84,435 | 85,582 | 88,071 | 86,029 | 1,86 | 0,022 |
| Blanko | 0,5701 | 0,5736 | 0,5563 | | | | 0,5666 | | |

| Fraksi 8 | | | | | | | | | | |
|-------------------|--------|--------|--------|--------------|--------------|--------------|---------------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata rata | SD | CV | IC ₅₀ |
| 1000 | 0,4876 | 0,491 | 0,48 | 13,953 | 13,371 | 15,365 | 14,229 | 10,1 | 0,71 | 4985,28 µg/mL |
| 2500 | 0,369 | 0,39 | 0,389 | 34,882 | 31,159 | 31,406 | 32,482 | 2,08 | 0,064 | |
| 4000 | 0,3051 | 0,311 | 0,304 | 46,159 | 45,047 | 46,388 | 45,865 | 0,72 | 0,016 | |
| 5500 | 0,2828 | 0,273 | 0,26 | 50,094 | 51,806 | 54,188 | 52,029 | 2,06 | 0,04 | |
| 7000 | 0,1997 | 0,198 | 0,197 | 64,759 | 65,024 | 65,324 | 65,035 | 0,28 | 0,004 | |
| Blanko | 0,5701 | 0,5736 | 0,5563 | | | | 0,5666 | | | |

| Fraksi 9 | | | | | | | | | | |
|-------------------|--------|--------|--------|--------------|--------------|--------------|---------------|------|-------|------------------|
| Konsentrasi (ppm) | 1x | 2x | 3x | % inhibisi 1 | % inhibisi 2 | % inhibisi 3 | Rata rata | SD | CV | IC ₅₀ |
| 1000 | 0,2994 | 0,289 | 0,284 | 47,165 | 49,071 | 49,847 | 48,694 | 1,38 | 0,028 | 1276,67 µg/mL |
| 2500 | 0,2388 | 0,252 | 0,256 | 57,859 | 55,476 | 54,894 | 56,076 | 1,57 | 0,028 | |
| 4000 | 0,2028 | 0,219 | 0,213 | 64,212 | 61,441 | 62,359 | 62,671 | 1,41 | 0,023 | |
| 5500 | 0,1878 | 0,175 | 0,159 | 66,859 | 69,082 | 71,906 | 69,282 | 2,53 | 0,037 | |
| 7000 | 0,125 | 0,123 | 0,13 | 77,941 | 78,312 | 77,041 | 77,765 | 0,65 | 0,008 | |
| Blanko | 0,5701 | 0,5736 | 0,5563 | | | | 0,5666 | | | |



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