**Lampiran 5. Gambar Identifikasi Senyawa Dengan KLT (Ekstrak)**

* **Di Bawah Sinar UV 254 nm dan Penampak Bercak**

|  |  |  |
| --- | --- | --- |
| **UV 254 nm** | **Penampak Bercak** | **Perhitungan Rf** |
| C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.19.jpeg  (a) (b) (c) (d)   1. Uji Kualitatif DPPH | C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-25 at 11.48.30.jpeg  Uji Kualitatif DPPH | |  |  |  | | --- | --- | --- | | **Sampel** | **Hitung** | **Rf** | | (a) MetOH | 3,3 cm / 8 cm | 0,41 | | (b) Et70 | 3,3 cm / 8 cm | 0,41 | | (c) Et96 | 3,3 cm / 8 cm | 0,41 | | (d) Vit C | 3,4 cm / 8 cm | 0,42 |   Rf (Noda Kuning Pucat) |
| C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.20 (1).jpeg   1. Flavonoid | C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.20 (2).jpeg  Flavonoid | |  |  |  | | --- | --- | --- | | **Sampel** | **Hitung** | **Rf** | | (a) MetOH | 5,0 cm / 8 cm | 0,36 | | (b) Et70 | 5,0 cm / 8 cm | 0,36 | | (c) Et96 | 5,0 cm / 8 cm | 0,36 | | (d)Quersetin | 5,0 cm / 8 cm | 0,36 |   Rf (Noda Kuning) |
| C:\Users\laptop asus\Downloads\WhatsApp Image 2023-07-05 at 14.14.47 (1).jpeg   1. Steroid | Steroid | |  |  |  | | --- | --- | --- | | **Sampel** | **Hitung** | **Rf** | | (a) MetOH | 8,0 cm /9,0 cm | 0,88 | | (b) Et70 | 8,0 cm /9,0 cm | 0,88 | | (c) Et96 | 8,0 cm /9,0 cm | 0,88 | | (d) Sitosterol | 8,0 cm /9,0 cm | 0,88 |   Rf (Putih latar coklat cepat hilang) |
| C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.22 (2).jpeg   1. Alkaloid | C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.22.jpeg  Alkaloid | |  |  |  | | --- | --- | --- | | **Sampel** | **Hitung** | **Rf** | | (a) MetOH | - | - | | (b) Et70 | - | - | | (c) Et96 | - | - | | (d) Piperin | 5,9 cm / 8 cm | 0,74 |   Rf (Coklat) |
| C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.22 (1).jpeg   1. Saponin | C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-20 at 13.26.19 (1).jpeg  Saponin | |  |  |  | | --- | --- | --- | | **Sampel** | **Hitung** | **Rf** | | (a) MetOH | 7,0 cm / 8 cm | 0,88 | | (b) Et70 | 7,0 cm / 8 cm | 0,88 | | (c) Et96 | 7,0 cm / 8 cm | 0,88 | |  |  |  |   Rf (Merah Ungu) |
| C:\Users\laptop asus\Downloads\WhatsApp Image 2023-07-08 at 11.37.55.jpeg   1. Tanin | Tanin | |  |  |  | | --- | --- | --- | | **Sampel** | **Hitung** | **Rf** | | (a) MetOH | 5,5 / 8 cm | 0,69 | | (b) Et70 | - | - | | (c) Et96 | - | - | | (d) Asam Galat | 5,5 / 8 cm | 0,69 |   Rf (Biru Kehitaman) |

**Lampiran 6. Gambar Preparasi Uji Antioksidan Ekstrak**

|  |  |
| --- | --- |
| Spektrofotometer UV – Vis (Shimadzu Series 1700) | C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-12 at 13.57.41.jpeg  **DPPH + deret Vit C** |
| C:\Users\laptop asus\Downloads\dpph bu tri.jpg  **DPPH + deret MeOH** | C:\Users\laptop asus\Downloads\WhatsApp Image 2023-05-12 at 14.00.44.jpeg  **DPPH + deret Et70** |
| C:\Users\laptop asus\Downloads\dpph.jpg  **DPPH + deret Et96** | |

**Lampiran 7. Hasil Uji Antioksidan Ekstrak Daun Kawista**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| F:\SRIPSII NURI\lampiran skripsi\WhatsApp Image 2022-07-08 at 13.19.20.jpeg  λmaks | F:\SRIPSII NURI\lampiran skripsi\WhatsApp Image 2022-07-08 at 13.19.20 (2).jpeg  Spektrum DPPH | |  |  |  | | --- | --- | --- | | **Konsentrasi** | **Abs** | λmaks | | 100 ppm | 0,621 | 516 nm |   Hasil absorbansi |

1. **Antioksidan Ekstrak Metanol Daun Kawista**

|  |  |
| --- | --- |
| **Penimbangan Baku Induk MeOH Replikasi I :**  **50,3 mg ad 50 ml = 1006 ppm**  **P. 5kali = 201,2 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **20 ppm**  V1 x 1000 ppm = 50 ml x 20 ppm  V1 = 1 ml | **20 ppm**  1 ml x 1002 ppm = 50 ml x C2  C2 = 20,04 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 201,2 ppm = 25 ml x C2  C2 = 80,48 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 201,2 ppm = 10 ml x C2  C2 = 100,60 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 201,2 ppm = 5 ml x C2  C2 = 120,72 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 201,2 ppm = 5 ml x C2  C2 = 140,84 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk MeOH Replikasi II :**  **48,9 mg ad 50 ml = 978 ppm**  **P. 5kali = 195,6 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 195,6 ppm = 10 ml x C2  C2 = 58,68 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 195,6 ppm = 25 ml x C2  C2 = 78,24 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 195,6 ppm = 10 ml x C2  C2 = 97,80 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 195,6 ppm = 5 ml x C2  C2 = 117,36 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 195,6 ppm = 5 ml x C2  C2 = 136,92 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk MeOH Replikasi III :**  **49,7 mg ad 50 ml = 994 ppm**  **P. 5kali = 198,8 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 198,8 ppm = 10 ml x C2  C2 = 59,64 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 198,8 ppm = 25 ml x C2  C2 = 79,52 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 198,8 ppm = 10 ml x C2  C2 = 99,40 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 198,8 ppm = 5 ml x C2  C2 = 119,28 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 198,8 ppm = 5 ml x C2  C2 = 139,16 ppm |

* **Persen Inhibisi DPPH dan Regresi Linier**

Rumus % inhibisi = x 100%

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Replikasi | Konsentrasi Sampel (ppm)  (X) | Absorbansi Kontrol | Absorbansi Sampel | % Inhibisi  (Y) | Regresi Linier | Nilai IC50  (ppm) | Nilai AAI |
| I | 60,360 | 0,621 | 0,333 | 46,38 | a = 33,1240 | 77,2372 | 1,2947 |
| 80,480 | 0,621 | 0,301 | 51,53 | b = 0,2185 |
| 100,600 | 0,621 | 0,288 | 53,62 | r = 0,99218 |
| 120,720 | 0,621 | 0,250 | 59,74 |
| 140,840 | 0,621 | 0,222 | 64,25 |
| II | 58,680 | 0,621 | 0,342 | 44,93 | a = 28,7930 | 82,5658 | 1,2112 |
| 78,240 | 0,621 | 0,316 | 49,11 | b = 0,2569 |
| 97,800 | 0,621 | 0,297 | 52,17 | r = 0,9809 |
| 117,360 | 0,621 | 0,264 | 57,49 |
| 136,920 | 0,621 | 0,212 | 65,86 |
| III | 59,640 | 0,621 | 0,350 | 43,64 | a = 29,9517 | 82,5020 | 1,2121 |
| 79,520 | 0,621 | 0,308 | 50,40 | b = 0,2430 |
| 99,400 | 0,621 | 0,286 | 53,95 | r = 0,9956 |
| 119,280 | 0,621 | 0,254 | 59,10 |
| 139,160 | 0,621 | 0,227 | 63,45 |
| Rata – rata **± SD** | | | | | | 82,2034 ± 0,5733 | 1,2165 ± 0,00852 |

1. **Antioksidan Ekstrak Etanol 70% Daun Kawista**

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Et70 Replikasi I :**  **50,3 mg ad 50 ml = 1006 ppm**  **P. 5kali = 201,2 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 201,2 ppm = 10 ml x C2  C2 = 60,36 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 201,2 ppm = 25 ml x C2  C2 = 80,48 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 201,2 ppm = 10 ml x C2  C2 = 100,60 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 201,2 ppm = 5 ml x C2  C2 = 120,72 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 201,2 ppm = 5 ml x C2  C2 = 140,84 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Et70 Replikasi II :**  **50,6 mg ad 50 ml = 1012 ppm**  **P. 5kali = 202,4 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 202,4 ppm = 10 ml x C2  C2 = 60,72 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 202,4 ppm = 25 ml x C2  C2 = 80,96 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 202,4 ppm = 10 ml x C2  C2 = 101,20 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 202,4 ppm = 5 ml x C2  C2 = 121,44 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 202,4 ppm = 5 ml x C2  C2 = 141,68 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Et70 Replikasi III :**  **49,9 mg ad 50 ml = 988 ppm**  **P. 5kali = 199,6 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 199,6 ppm = 10 ml x C2  C2 = 59,88 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 199,6 ppm = 25 ml x C2  C2 = 79,84 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 199,6 ppm = 10 ml x C2  C2 = 99,80 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 199,6 ppm = 5 ml x C2  C2 = 119,76 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 199,6 ppm = 5 ml x C2  C2 = 139,72 ppm |

* **Persen Inhibisi DPPH dan Regresi Linier**

Rumus % inhibisi = x 100%

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Replikasi | Konsentrasi Sampel (ppm)  (X) | Absorbansi Kontrol | Absorbansi Sampel | % Inhibisi  (Y) | Regresi Linier | Nilai IC50  (ppm) | Nilai AAI |
| I | 60,360 | 0,621 | 0,410 | 33,98 | a = 18,2287 | 143,829 | 0,6953 |
| 80,480 | 0,621 | 0,407 | 34,46 | b = 0,2209 |
| 100,600 | 0,621 | 0,384 | 38,16 | r = 0,95924 |
| 120,720 | 0,621 | 0,345 | 44,44 |
| 140,840 | 0,621 | 0,303 | 51,21 |
| II | 60,720 | 0,621 | 0,420 | 32,37 | a = 13,0274 | 131,775 | 0,7589 |
| 80,960 | 0,621 | 0,415 | 33,17 | b = 0,28244 |
| 101,200 | 0,621 | 0,367 | 40,90 | r = 0,97989 |
| 121,440 | 0,621 | 0,322 | 48,15 |
| 141,68 | 0,621 | 0,289 | 53,46 |
| III | 59,88 | 0,621 | 0,412 | 33,66 | a = 17,6812 | 130,904 | 0,7639 |
| 79,84 | 0,621 | 0,398 | 35,91 | b = 0,24526 |
| 99,80 | 0,621 | 0,366 | 41,06 | r = 0,98793 |
| 119,76 | 0,621 | 0,322 | 48,15 |
| 139,72 | 0,621 | 0,298 | 52,01 |
| Rata – rata **± SD** | | | | | | 135,5030 ± 7,2238 | 0,7934 ± 0,0382 |

1. **Antioksidan Ekstrak Etanol 96% Daun Kawista**

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Et96 Replikasi I :**  **49,9 mg ad 50 ml = 988 ppm**  **P. 5kali = 199,6 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 199,6 ppm = 10 ml x C2  C2 = 59,88 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 199,6 ppm = 25 ml x C2  C2 = 79,84 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 199,6 ppm = 10 ml x C2  C2 = 99,80 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 199,6 ppm = 5 ml x C2  C2 = 119,76 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 199,6 ppm = 5 ml x C2  C2 = 139,72 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Et96 Replikasi II :**  **50,5 mg ad 50 ml = 1010 ppm**  **P. 5kali = 202 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 202 ppm = 10 ml x C2  C2 = 59,88 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 202 ppm = 25 ml x C2  C2 = 80,80 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 202 ppm = 10 ml x C2  C2 = 101,00 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 202 ppm = 5 ml x C2  C2 = 121,20 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 202 ppm = 5 ml x C2  C2 = 141,40 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Et96 Replikasi II :**  **51 mg ad 50 ml = 1020 ppm**  **P. 5kali = 204 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **60 ppm**  V1 x 200 ppm = 10 ml x 60 ppm  V1 = 3 ml | **60 ppm**  3 ml x 204 ppm = 10 ml x C2  C2 = 61,20 ppm |
| **80 ppm**  V1 x 200 ppm = 25 ml x 80 ppm  V1 = 10 ml | **80 ppm**  10 ml x 204 ppm = 25 ml x C2  C2 = 81,60 ppm |
| **100 ppm**  V1 x 200 ppm = 10 ml x 100 ppm  V1 = 5 ml | **100 ppm**  5 ml x 204 ppm = 10 ml x C2  C2 = 102,00 ppm |
| **120 ppm**  V1 x 200 ppm = 5 ml x 120 ppm  V1 = 3 ml | **120 ppm**  3 ml x 204 ppm = 5 ml x C2  C2 = 122,40 ppm |
| **140 ppm**  V1 x 200 ppm = 5 ml x 140 ppm  V1 = 3,5 ml | **140 ppm**  3,5 ml x 204 ppm = 5 ml x C2  C2 = 142,80 ppm |

* **Persen Inhibisi DPPH dan Regresi Linier**

Rumus % inhibisi = x 100%

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Replikasi | Konsentrasi Sampel (ppm)  (X) | Absorbansi Kontrol | Absorbansi Sampel | % Inhibisi  (Y) | Regresi Linier | Nilai IC50  (ppm) | Nilai AAI |
| I | 59,88 | 0,621 | 0,365 | 41,22 | a = 31,127 | 123,77 | 0,8079 |
| 79,84 | 0,621 | 0,357 | 42,51 | b = 0,1525 |
| 99,80 | 0,621 | 0,334 | 46,22 | r = 0,9764 |
| 119,76 | 0,621 | 0,322 | 48,15 |
| 139,72 | 0,621 | 0,288 | 53,62 |
| II | 60,60 | 0,621 | 0,358 | 42,35 | a = 33,768 | 125,47 | 0,7907 |
| 80,80 | 0,621 | 0,347 | 44,12 | b = 0,1283 |
| 101,00 | 0,621 | 0,337 | 45,73 | r = 0,9651 |
| 121,20 | 0,621 | 0,322 | 48,15 |
| 141,40 | 0,621 | 0,290 | 53,30 |
| III | 61,20 | 0,621 | 0,352 | 43,32 | a = 34,396 | 120,53 | 0,8297 |
| 81,60 | 0,621 | 0,348 | 43,96 | b = 0,1295 |
| 102,00 | 0,621 | 0,326 | 47,50 | r = 0,9761 |
| 122,40 | 0,621 | 0,314 | 49,44 |
| 142,80 | 0,621 | 0,287 | 53,78 |
| Rata – rata **± SD** | | | | | | 123,5900 ± 2,9718 | 0,8094 ± 0,0195 |

1. **Antioksidan Baku Vitamin C**

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Vit C Replikasi I :**  **10,2 mg ad 10 ml = 1020 ppm**  **P. 10kali = 102 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **10 ppm**  V1 x 100 ppm = 10 ml x 10 ppm  V1 = 1 ml | **10 ppm**  1 ml x 102 ppm = 10 ml x C2  C2 = 10,20 ppm |
| **20 ppm**  V1 x 100 ppm = 25 ml x 20 ppm  V1 = 5 ml | **20 ppm**  5 ml x 102 ppm = 25 ml x C2  C2 = 20,40 ppm |
| **30 ppm**  V1 x 100 ppm = 10 ml x 30 ppm  V1 = 3 ml | **30 ppm**  3 ml x 102 ppm = 10 ml x C2  C2 = 30,60 ppm |
| **40 ppm**  V1 x 100 ppm = 25 ml x 40 ppm  V1 = 10 ml | **40 ppm**  10 ml x 102 ppm = 25 ml x C2  C2 = 40,80 ppm |
| **50 ppm**  V1 x 100 ppm = 10 ml x 50 ppm  V1 = 5 ml | **50 ppm**  5 ml x 102 ppm = 10 ml x C2  C2 = 51,00 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Vit C Replikasi II :**  **10 mg ad 10 ml = 1000 ppm**  **P. 10kali = 100 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **10 ppm**  V1 x 100 ppm = 10 ml x 10 ppm  V1 = 1 ml | **10 ppm**  1 ml x 100 ppm = 10 ml x C2  C2 = 10,00 ppm |
| **20 ppm**  V1 x 100 ppm = 25 ml x 20 ppm  V1 = 5 ml | **20 ppm**  5 ml x 100 ppm = 25 ml x C2  C2 = 20,00 ppm |
| **30 ppm**  V1 x 100 ppm = 10 ml x 30 ppm  V1 = 3 ml | **30 ppm**  3 ml x 100 ppm = 10 ml x C2  C2 = 30,00 ppm |
| **40 ppm**  V1 x 100 ppm = 25 ml x 40 ppm  V1 = 10 ml | **40 ppm**  10 ml x 100 ppm = 25 ml x C2  C2 = 40,00 ppm |
| **50 ppm**  V1 x 100 ppm = 10 ml x 50 ppm  V1 = 5 ml | **50 ppm**  5 ml x 100 ppm = 10 ml x C2  C2 = 50,00 ppm |

|  |  |
| --- | --- |
| **Penimbangan Baku Induk Vit C Replikasi III :**  **10,4 mg ad 10 ml = 1040 ppm**  **P. 10kali = 104 ppm** | |
| **Deret Konsentrasi**  **(V1 x C1 = V2 x C2)** | **Koreksi Kadar**  **(V1 x C1 = V2 x C2)** |
| **10 ppm**  V1 x 100 ppm = 10 ml x 10 ppm  V1 = 1 ml | **10 ppm**  1 ml x 104 ppm = 10 ml x C2  C2 = 10,40 ppm |
| **20 ppm**  V1 x 100 ppm = 25 ml x 20 ppm  V1 = 5 ml | **20 ppm**  5 ml x 104 ppm = 25 ml x C2  C2 = 20,80 ppm |
| **30 ppm**  V1 x 100 ppm = 10 ml x 30 ppm  V1 = 3 ml | **30 ppm**  3 ml x 104 ppm = 10 ml x C2  C2 = 31,20 ppm |
| **40 ppm**  V1 x 100 ppm = 25 ml x 40 ppm  V1 = 10 ml | **40 ppm**  10 ml x 104 ppm = 25 ml x C2  C2 = 41,60 ppm |
| **50 ppm**  V1 x 100 ppm = 10 ml x 50 ppm  V1 = 5 ml | **50 ppm**  5 ml x 104 ppm = 10 ml x C2  C2 = 52,00 ppm |

* **Persen Inhibisi DPPH dan Regresi Linier**

Rumus % inhibisi = x 100%

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Replikasi | Konsentrasi Sampel (ppm)  (X) | Absorbansi Kontrol | Absorbansi Sampel | % Inhibisi  (Y) | Regresi Linier | Nilai IC50  (ppm) | Nilai AAI |
| I | 10,20 | 0,621 | 0,323 | 47,99 | a = 43,285 | 15,8709 | 6,3008 |
| 20,40 | 0,621 | 0,299 | 51,85 | b = 0,4231 |
| 30,60 | 0,621 | 0,277 | 55,39 | r = 0,99734 |
| 40,80 | 0,621 | 0,243 | 60,87 |
| 51,00 | 0,621 | 0,217 | 65,06 |
| II | 10,00 | 0,621 | 0,312 | 49,76 | a = 44,5089 | 13,3203 | 7,5073 |
| 20,00 | 0,621 | 0,296 | 52,33 | b = 0,41224 |
| 30,00 | 0,621 | 0,277 | 55,39 | r = 0,98602 |
| 40,00 | 0,621 | 0,244 | 60,71 |
| 50,00 | 0,621 | 0,210 | 66,18 |
| III | 10,40 | 0,621 | 0,317 | 48,95 | a = 43,752 | 15,2272 | 6,5672 |
| 20,80 | 0,621 | 0,302 | 51,37 | b = 0,41032 |
| 31,20 | 0,621 | 0,276 | 55,56 | r = 0,98988 |
| 41,60 | 0,621 | 0,237 | 61,84 |
| 52,00 | 0,621 | 0,217 | 65,06 |
| Rata – rata **± SD** | | | | | | 14,8061 ± 1,3264 | 6,7918 ± 0,6338 |

**Lampiran 8. Uji Statistika Aktivitas Antioksidan Ekstrak Daun Kawista**

1. **Data IC50 dan AAI Ekstrak Daun Kawista**

|  |  |  |  |
| --- | --- | --- | --- |
| Kelompok | Replikasi | IC50 | AAI |
| I  (EM) | 1 | 77,2372 | 1,2947 |
| 2 | 82,5658 | 1,2112 |
| 3 | 82,5020 | 1,2121 |
| II  (EE70) | 1 | 143,8290 | 0,6953 |
| 2 | 130,9040 | 0,7639 |
| 3 | 131,7750 | 0,7589 |
| III  (EE96) | 1 | 123,7700 | 0,8079 |
| 2 | 126,4700 | 0,7907 |
| 3 | 120,5300 | 0,8297 |
| IV  (SVC) | 1 | 15,8709 | 6,3008 |
| 2 | 13,3203 | 7,5073 |
| 3 | 15,2272 | 6,5672 |

1. **Hasil Uji Statistik Antioksidan Ekstrak Daun Kawista**

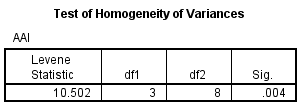
**Uji Normalitas**



**Interpretasi Hasil :**

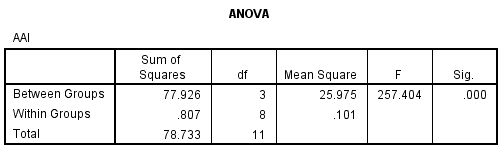
Berdasarkan tabel Test of Normality didapatkan Nilai Sig lebih dari α = 0,05) sehingga H0 diterima dan data antioksidan dinyatakant**erdistribusi normal.** Sehingga dilanjutkan uji parametrik yaitu *Anova one way*.

**Uji Homogenitas**



**Interpretasi Hasil :**

Berdasarkan tabel Test of Homogeneity of Variances didapatkan Sig kurang dari α = 0,05 sehingga H0 ditolak dan data disimpulkan bahwa variasi antar kelompok tidak Homogen.



H0 = tidak ada perbedaan signifikan aktivitas antioksidan rata-rata dari masing-masing kelompok.

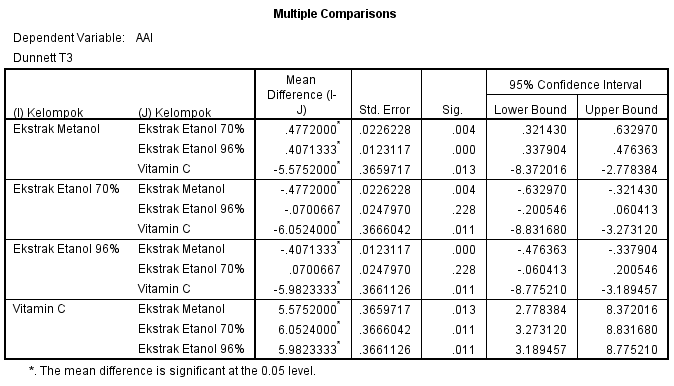
Ha = ada perbedaan signifikan aktivitas antioksidan rata-rata dari masing-masing kelompok.

**Interpretasi Hasil :**

Berdasarkan tabel ANOVA didapatkan nilai Sig = 0,000 (Nilai lebih kecil dari α = 0,05) sehingga H0 ditolak dan disimpulkan bahwa terdapat perbedaan signifikan aktivitas antioksidan rata-rata dari masing-masing kelompok.

**Uji Pos Hoc**

Dikarenakan data disimpulkan homogen maka dilakukan uji pos hoc dengan Equal Variane Not Assumed (Dunnets T3)

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