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

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

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| Kelompok | Replikasi | IC50 | AAI |
| I(EM) | 1 | 77,2372 | 1,2947 |
| 2 | 82,5658 | 1,2112 |
| 3 | 82,502 | 1,2121 |
| II(EE70) | 1 | 143,829 | 0,6953 |
| 2 | 130,904 | 0,7639 |
| 3 | 131,775 | 0,7589 |
| III(EE96) | 1 | 123,77 | 0,8079 |
| 2 | 126,47 | 0,7907 |
| 3 | 120,53 | 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**

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| **Tests of Normality** |
|  | Kolmogorov-Smirnova | Shapiro-Wilk |
| Statistic | df | Sig. | Statistic | df | Sig. |
| IC50 | .279 | 9 | .041 | .835 | 9 | .050 |
| AAI | .330 | 9 | .005 | .783 | 9 | .013 |
| a. Lilliefors Significance Correction |

Interpretasi Hasil :

Berdasarkan tabel Test of Normality didapatkan Nilai Sig = 0,05 dan 0,013 (kurang dari α = 0,05) sehingga H0 ditolak dan data antioksidan dinyatakan **tidak** t**erdistribusi normal.**

Sehingga dilanjutkan uji alternatif (non parametrik) yaitu Kruskal wallis.

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| **Test Statisticsa,b** |
|  | IC50 | AAI |
| Chi-Square | 7.200 | 7.200 |
| df | 2 | 2 |
| Asymp. Sig. | .027 | .027 |
| a. Kruskal Wallis Test |
| b. Grouping Variable: Kelompok |

Interpretasi Hasil :

Berdasarkan tabel Test Statistics didapatkan Nilai Sig = 0,027 (kurang dari α = 0,05) sehingga H0 ditolak dan data antioksidan dinyatakan **berbeda signifikan.**

Sehingga dilanjutkan uji Mann Whitney untuk mengetahui perbedaan dari masing – masing kelompok.

1. Kelompok 1 vs Kelompok 2

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| --- |
| **Ranks** |
|  | Kelompok | N | Mean Rank | Sum of Ranks |
| IC50 | Ekstrak Metanol | 3 | 2.00 | 6.00 |
| Ekstrak Etanol 70% | 3 | 5.00 | 15.00 |
| Total | 6 |  |  |

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| **Test Statisticsa** |
|  | IC50 |
| Mann-Whitney U | .000 |
| Wilcoxon W | 6.000 |
| Z | -1.964 |
| Asymp. Sig. (2-tailed) | .050 |
| Exact Sig. [2\*(1-tailed Sig.)] | .100b |
| a. Grouping Variable: Kelompok |
| b. Not corrected for ties. |

1. Kelompok 1 vs Kelompok 3

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| **Ranks** |
|  | Kelompok | N | Mean Rank | Sum of Ranks |
| IC50 | Ekstrak Metanol | 3 | 2.00 | 6.00 |
| Ekstrak Etanol 96% | 3 | 5.00 | 15.00 |
| Total | 6 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | IC50 |
| Mann-Whitney U | .000 |
| Wilcoxon W | 6.000 |
| Z | -1.964 |
| Asymp. Sig. (2-tailed) | .050 |
| Exact Sig. [2\*(1-tailed Sig.)] | .100b |
| a. Grouping Variable: Kelompok |
| b. Not corrected for ties. |

1. Kelompok 2 vs Kelompok 3

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| **Ranks** |
|  | Kelompok | N | Mean Rank | Sum of Ranks |
| IC50 | Ekstrak Etanol 70% | 3 | 5.00 | 15.00 |
| Ekstrak Etanol 96% | 3 | 2.00 | 6.00 |
| Total | 6 |  |  |

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| --- |
| **Test Statisticsa** |
|  | IC50 |
| Mann-Whitney U | .000 |
| Wilcoxon W | 6.000 |
| Z | -1.964 |
| Asymp. Sig. (2-tailed) | .050 |
| Exact Sig. [2\*(1-tailed Sig.)] | .100b |
| a. Grouping Variable: Kelompok |
| b. Not corrected for ties. |