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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Drug Dose (concentration)** | | | | |  |  |
| **Sample #** | **0 ng/ml** | **0.1 ng/ml** | **1 ng/ml** | **10 ng/ml** | **100 ng/ml** |  |  |
| 1 | 21 | 43 | 94 | 145 | 215 |  |  |
| 2 | 17 | 36 | 93 | 134 | 243 |  |  |
| 3 | 32 | 67 | 91 | 165 | 222 |  |  |
| 4 | 21 | 63 | 95 | 155 | 212 |  |  |
| 5 | 31 | 66 | 99 | 131 | 226 |  |  |
| 6 | 38 | 62 | 106 | 145 | 227 |  |  |
| 7 | 39 | 66 | 115 | 163 | 243 |  |  |
| 8 | 35 | 64 | 85 | 129 | 221 |  |  |
| 9 | 36 | 68 | 88 | 144 | 201 |  |  |
| 10 | 37 | 66 | 85 | 167 | 244 |  |  |
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| Anova: Single Factor | |  |  |  |  |  |  |
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| SUMMARY |  |  |  |  |  |  |  |
| *Groups* | *Count* | *Sum* | *Average* | *Variance* |  |  |  |
| 0 ng/ml | 10 | 307 | 30.7 | 65.12222 |  |  |  |
| 0.1 ng/ml | 10 | 601 | 60.1 | 123.8778 |  |  |  |
| 1 ng/ml | 10 | 951 | 95.1 | 89.65556 |  |  |  |
| 10 ng/ml | 10 | 1478 | 147.8 | 200.4 |  |  |  |
| 100 ng/ml | 10 | 2254 | 225.4 | 209.1556 |  |  |  |
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| ANOVA |  |  |  |  |  |  |  |
| *Source of Variation* | *SS* | *df* | *MS* | *F* | *P-value* | *F crit* |  |
| Between Groups | 237299.5 | 4 | 59324.87 | 431.0078 | 3.05E-35 | 2.578739 |  |
| Within Groups | 6193.9 | 45 | 137.6422 |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Total | 243493.4 | 49 |  |  |  |  |  |
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According to the p-value of 3.05E-35 from the ANOVA test, the null hypothesis is failed to be rejected