|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mineral Nutrients (µM g-1D.W) | | | T0 | T1 | T2 | T3 | T4 | T5 | T6 | T7 |
| FD-3 | Shoot | Mn | 29.50±0.14 | 30.50±0.22 | 16.55±0.12 | 21.75±0.14 | 11.24±0.09 | 12.45±0.17 | 9.85±0.07 | 12.35±0.12 |
| Mg | 302.00±0.60 | 307.15±0.25 | 215.22±0.22 | 248.45±0.16 | 182.30±0.21 | 202.45±0.16 | 162.65±0.15 | 194.55±0.21 |
| Ca | 122.25±0.22 | 130.55±0.13 | 94.35±0.20 | 109.55±0.21 | 83.25±0.26 | 96.35±0.15 | 70.15±0.25 | 81.65±0.23 |
| K | 735.55±0.43 | 742.65±0.23 | 513.75±0.23 | 595.25±0.32 | 345.35±0.35 | 465.23±0.37 | 295.22±0.24 | 387.34±0.35 |
| Root | Mn | 88.25±0.38 | 93.34±0.44 | 99.24±0.29 | 82.45±0.32 | 107.55±0.22 | 91.55±0.35 | 134.33±0.20 | 123.75±0.21 |
| Mg | 945.45±0.26 | 956.12±0.27 | 865.55±0.19 | 905.35±0.35 | 802.55±0.26 | 865.33±0.49 | 745.86±0.21 | 797.35±0.19 |
| Ca | 215.35±0.35 | 220.75±0.17 | 210.55±0.26 | 225.65±0.29 | 195.86±0.26 | 220.15±0.36 | 175.33±0.33 | 195.88±0.28 |
| K | 1485.25±0.51 | 1510.33±0.22 | 1235.25±0.61 | 1295.38±0.42 | 1095.45±0.41 | 1175.85±0.33 | 1009.22±0.53 | 1175.85±0.47 |
| FD-4 | Shoot | Mn | 27.55±0.21 | 29.33±0.26 | 15.75±0.23 | 22.33±0.24 | 9.55±0.23 | 11.33±0.19 | 8.45±0.24 | 11.55±0.33 |
| Mg | 298.22±0.39 | 305.45±0.34 | 212.33±0.34 | 241.55±0.35 | 189.66±0.26 | 211.33±0.24 | 167.33±0.50 | 199.25±0.40 |
| Ca | 118.55±0.35 | 127.55±0.23 | 90.33±0.41 | 106.45±0.38 | 84.33±0.33 | 99.33±0.45 | 67.78±0.17 | 77.68±0.34 |
| K | 774.65±0.39 | 752.45±0.45 | 533.56±0.38 | 586.36±0.35 | 352.34±0.48 | 474.25±0.43 | 295.55±0.39 | 365.33±0.47 |
| Root | Mn | 86.60±0.22 | 94.23±0.16 | 103.75±0.19 | 83.55±0.32 | 108.33±0.45 | 93.68±0.34 | 135.33±0.53 | 124.65±0.28 |
| Mg | 943.58±0.30 | 950.96±0.11 | 860.45±0.36 | 898.75±0.38 | 795.45±0.89 | 845.34±0.53 | 735.78±0.64 | 787.65±0.29 |
| Ca | 211.58±0.30 | 217.77±0.13 | 214.87±0.18 | 230.85±0.51 | 197.55±0.28 | 225.86±0.29 | 170.33±0.29 | 199.45±0.80 |
| K | 1475.65±0.33 | 1505.58±0.30 | 1310.75±0.79 | 1375.75±0.45 | 1125.25±0.44 | 1175.58±0.51 | 999.33±0.89 | 1095.55±0.45 |
| FD-2 | Shoot | Mn | 30.96±0.35 | 33.18±0.43 | 14.58±0.30 | 24.10±0.24 | 10.78±0.22 | 13.33±0.22 | 7.87±0.11 | 9.37±0.22 |
| Mg | 310.85±0.45 | 308.25±0.38 | 209.58±0.30 | 240.85±0.45 | 183.52±0.29 | 215.77±0.23 | 158.53±0.24 | 160.42±0.30 |
| Ca | 125.78±0.40 | 127.38±0.31 | 96.33±0.88 | 104.33±0.88 | 83.48±1.75 | 102.72±0.36 | 68.42±0.30 | 79.18±0.18 |
| K | 765.58±0.30 | 736.67±0.67 | 520.92±0.58 | 590.00±0.58 | 522.14±0.88 | 476.92±0.65 | 289.44±0.29 | 379.63±0.26 |
| Root | Mn | 91.92±0.39 | 95.58±0.30 | 99.25±0.38 | 71.52±0.29 | 104.00±0.58 | 85.82±0.20 | 129.38±0.31 | 117.48±0.29 |
| Mg | 948.92±0.51 | 1006.18±0.43 | 855.78±0.40 | 901.33±0.88 | 769.42±0.30 | 795.44±o.29 | 738.58±0.30 | 781.67±0.667 |
| Ca | 217.58±0.30 | 227.58±0.82 | 207.58±0.30 | 218.92±0.51 | 165.92±0.51 | 215.44±0.29 | 168.58±0.30 | 189.53±0.24 |
| K | 1497.72±0.36 | 1521.58±0.30 | 1223.33±0.88 | 1176.75±0.90 | 1071.98±0.56 | 1190.67±0.88 | 1002.38±0.31 | 1157.00±0.58 |
| Ceilo Blanco | Shoot | Mn | 28.17±0.29 | 29.1±0.24 | 13.09±0.12 | 22.63±0.39 | 11.73±0.16 | 12.88±0.23 | 7.77±0.13 | 9.88±0.23 |
| Mg | 307.92±0.51 | 310.18±0.61 | 202.58±0.30 | 215.95±0.22 | 175.00±0.26 | 206.58±0.30 | 148.69±0.20 | 153.43±0.22 |
| Ca | 122.25±0.63 | 125.44±0.29 | 81.25±0.38 | 97.96±0.35 | 70.19±0.10 | 91.82±0.43 | 57.44±0.29 | 68.44±0.29 |
| K | 745.44±0.29 | 729.85±0.45 | 510.98±0.56 | 566.00±0.15 | 501.18±0.74 | 462.51±0.29 | 281.44±0.29 | 355.33±0.33 |
| Root | Mn | 82.52±0.27 | 85.67±0.33 | 101.11±0.67 | 69.69±0.19 | 100.67±0.88 | 80.63±0.81 | 122.76±0.39 | 110.32±0.34 |
| Mg | 941.25±0.63 | 1000.29±0.69 | 848.63±0.54 | 899.92±0.51 | 701.48±0.75 | 710.52±0.29 | 699.67±0.66 | 711.44±0.29 |
| Ca | 202.33±0.67 | 217.44±0.29 | 194.92±0.51 | 200.58±0.30 | 145.78±0.40 | 197.67±0.66 | 144.44±0.29 | 185.44±0.27 |
| K | 1353.33±0.88 | 1412.69±0.39 | 1132.33±0.34 | 1165.67±0.33 | 1021.67±0.66 | 1077.92±0.51 | 999.58±0.82 | 1034.10±0.24 |

**Table 1S**. Effect of various application levels of nitric oxide and Cd toxicity tolerance on nutrient uptake in various varieties of *B. oleracea* grown in various levels of Cd treatments in the medium.

Means sharing similar letter(s) within a column for each parameter do not differ significantly at *P* < 0.05. Data in the tables are means of three repeats (n = 3) of just one harvest of *B. oleracea* varieties ± standard deviation (SD). Different abbreviations used in the table are as follow: To=0µM CdCl2, T1= 0µM CdCl2 +NO, T2= 5µM CdCl2, T3= 5µM CdCl2 +NO, T4= 10µM CdCl2, T5=10µM CdCl2 +NO, T6= Control+20µM CdCl2, T7= 20µM CdCl2 +NO.

**Table 2S**. Effect of various application levels of nitric oxide on Cd uptake and accumulation in various varieties of *B. oleracea* grown in various levels of Cd treatments in the medium.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Treatments** | **FD-3** | | **FD-4** | | **FD-2** | | **Ceilo Blanco** | | |
| **Root** | **Shoot** | **Root** | **Shoot** | **Root** | **Shoot** | | **Root** | **Shoot** | |
| **T0** | 00.60±0.01 | 00.44±0.01 | 00.51±0.02 | 00.39±0.01 | 00.46±0.01 | 00.41±0.01 | | 00.48±0.01 | 00.44±0.01 | |
| **T1** | 00.55±0.01 | 00.41±0.01 | 00.47±0.01 | 00.39±0.01 | 00.42±0.01 | 00.39±0.01 | | 00.45±0.01 | 00.43±0.01 | |
| **T2** | 29.50±0.08 | 17.15±0.06 | 27.75±0.09 | 16.35±0.06 | 28.75±0.15 | 18.32±0.10 | | 29.35±0.18 | 25.75±0.13 | |
| **T3** | 23.72±0.03 | 15.32±0.04 | 24.25±0.09 | 14.75±0.15 | 23.75±0.08 | 14.25±0.09 | | 25.75±0.07 | 15.25±0.89 | |
| **T4** | 38.23±0.03 | 20.15±0.05 | 37.75±0.10 | 19.25±0.08 | 38.15±0.23 | 19.75±0.09 | | 39.50±0.12 | 25.35±0.18 | |
| **T5** | 24.75±0.10 | 14.50±0.07 | 23.75±0.13 | 14.00±0.13 | 24.85±0.15 | 15.25±0.15 | | 26.35±0.16 | 14.33±0.18 | |
| **T6** | 39.75±0.25 | 21.50±0.07 | 40.75±0.09 | 22.75±0.12 | 39.35±0.12 | 19.50±0.10 | | 40.75±0.07 | 26.33±0.20 | |
| **T7** | 28.15±0.29 | 18.15±0.03 | 29.35±0.12 | 17.75±0.10 | 29.75±0.09 | 18.35±0.12 | | 30.35±0.15 | 22.50±0.14 | |

Means sharing similar letter(s) within a column for each parameter do not differ significantly at *P* < 0.05. Data in the tables are means of three repeats (n = 3) of just one harvest of *B. oleracea* varieties ± standard deviation (SD). Different abbreviations used in the table are as follow: To=0µM CdCl2, T1= 0µM CdCl2 +NO, T2= 5µM CdCl2, T3= 5µM CdCl2 +NO, T4= 10µM CdCl2, T5=10µM CdCl2 +NO, T6= Control+20µM CdCl2, T7= 20µM CdCl2 +NO.

Table 3S Effect of exogenous applied 100µM NO on physiological characters in four cultivars of *Brassica oleracea* grown under 0, 5, 10 and 20µM Cd concentration.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | df | SS | MS | F | P |
| Shoot Length | Stress | 3 | 5.994003125 | 1.998001 | 213.54721 | .0000 \*\*\* |
| Variety | 3 | 18.09054479 | 6.0301816 | 644.50839 | .0000 \*\*\* |
| Treatment | 1 | 14.87587604 | 14.875876 | 1589.94 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 6.798401042 | 0.7553779 | 80.735112 | .0000 \*\*\* |
| S × T | 3 | 2.152728125 | 0.717576 | 76.694834 | .0000 \*\*\* |
| V × T | 3 | 1.690103125 | 0.5633677 | 60.212982 | .0000 \*\*\* |
| S × V × T | 9 | 1.096142708 | 0.1217936 | 13.017356 | .0000 \*\*\* |
| Error | 64 | 0.5988 | 0.0093563<- |  |  |
| Root Length | Stress | 3 | 28.358125 | 9.4527083 | 515.8954 | .0000 \*\*\* |
| Variety | 3 | 1.747291667 | 0.5824306 | 31.787 | .0000 \*\*\* |
| Treatment | 1 | 9.0774 | 9.0774 | 495.41239 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 6.130416667 | 0.6811574 | 37.175163 | .0000 \*\*\* |
| S × T | 3 | 1.600491667 | 0.5334972 | 29.116392 | .0000 \*\*\* |
| V × T | 3 | 0.536325 | 0.178775 | 9.7569073 | .0000 \*\*\* |
| S × V × T | 9 | 0.658683333 | 0.073187 | 3.9942897 | .0004 \*\*\* |
| Error | 64 | 1.172666667 | 0.0183229<- |  |  |
| Shoot F.W | Stress | 3 | 0.002170833 | 7.2361e-4 | 3.8379374 | .0137 \* |
| Variety | 3 | 0.042004167 | 0.0140014 | 74.26151 | .0000 \*\*\* |
| Treatment | 1 | 0.1395375 | 0.1395375 | 740.0884 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.006720833 | 7.4676e-4 | 3.9607121 | .0005 \*\*\* |
| S × T | 3 | 0.002170833 | 7.2361e-4 | 3.8379374 | .0137 \* |
| V × T | 3 | 0.007370833 | 0.0024569 | 13.031308 | .0000 \*\*\* |
| S × V × T | 9 | 0.006720833 | 7.4676e-4 | 3.9607121 | .0005 \*\*\* |
| Error | 64 | 0.012066667 | 1.8854e-4<- |  |  |
| Root F.W | Stress | 3 | 0.167728125 | 0.0559094 | 654.54878 | .0000 \*\*\* |
| Variety | 3 | 0.025869792 | 0.0086233 | 100.95528 | .0000 \*\*\* |
| Treatment | 1 | 0.137259375 | 0.1372594 | 1606.939 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.003517708 | 3.9086e-4 | 4.5758808 | .0001 \*\*\* |
| S × T | 3 | 0.002786458 | 9.2882e-4 | 10.873984 | .0000 \*\*\* |
| V × T | 3 | 0.015128125 | 0.0050427 | 59.036585 | .0000 \*\*\* |
| S × V × T | 9 | 0.004109375 | 4.566e-4 | 5.3455285 | .0000 \*\*\* |
| Error | 64 | 0.005466667 | 8.5417e-5<- |  |  |
| Shoot D.W | Stress | 3 | 0.189228125 | 0.063076 | 540.65179 | .0000 \*\*\* |
| Variety | 3 | 0.053461458 | 0.0178205 | 152.74702 | .0000 \*\*\* |
| Treatment | 1 | 0.191709375 | 0.1917094 | 1643.2232 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.005242708 | 5.8252e-4 | 4.9930556 | .0000 \*\*\* |
| S × T | 3 | 0.010103125 | 0.0033677 | 28.866071 | .0000 \*\*\* |
| V × T | 3 | 0.033786458 | 0.0112622 | 96.532738 | .0000 \*\*\* |
| S × V × T | 9 | 0.005217708 | 5.7975e-4 | 4.969246 | .0000 \*\*\* |
| Error | 64 | 0.007466667 | 1.1667e-4<- |  |  |
| Root D.W | Stress | 3 | 0.111386458 | 0.0371288 | 456.97009 | .0000 \*\*\* |
| Variety | 3 | 0.033103125 | 0.0110344 | 135.80769 | .0000 \*\*\* |
| Treatment | 1 | 0.223301042 | 0.223301 | 2748.3205 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.004101042 | 4.5567e-4 | 5.6082621 | .0000 \*\*\* |
| S × T | 3 | 0.003011458 | 0.0010038 | 12.354701 | .0000 \*\*\* |
| V × T | 3 | 0.022211458 | 0.0074038 | 91.123932 | .0000 \*\*\* |
| S × V × T | 9 | 0.003459375 | 3.8438e-4 | 4.7307692 | .0001 \*\*\* |
| Error | 64 | 0.0052 | 8.125e-5<- |  |  |

Table 4S Effect of exogenous applied 100µM NO on Photosynthetic Pigment in four cultivars of *Brassica oleracea* grown under 0, 5, 10 and 20µM Cd concentration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | df | Type III SS | MS | F | P |
| Chl a | Stress | 3 | 1.383711458 | 0.4612372 | 180.95123 | .0000 \*\*\* |
| Variety | 3 | 0.040961458 | 0.0136538 | 5.3566272 | .0024 \*\* |
| Treatment | 1 | 0.121126042 | 0.121126 | 47.51982 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.044009375 | 0.0048899 | 1.9184035 | .0650 ns |
| S × T | 3 | 0.033836458 | 0.0112788 | 4.424874 | .0069 \*\* |
| V × T | 3 | 0.009003125 | 0.003001 | 1.17736 | .3254 ns |
| S × V × T | 9 | 0.020717708 | 0.002302 | 0.9031013 | .5281 ns |
| Error | 64 | 0.163133333 | 0.002549<- |  |  |
| Chl b | Stress | 3 | 0.348928125 | 0.1163094 | 1345.2651 | .0000 \*\*\* |
| Variety | 3 | 0.021444792 | 0.0071483 | 82.678715 | .0000 \*\*\* |
| Treatment | 1 | 0.075376042 | 0.075376 | 871.81928 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.038784375 | 0.0043094 | 49.843373 | .0000 \*\*\* |
| S × T | 3 | 0.019744792 | 0.0065816 | 76.124498 | .0000 \*\*\* |
| V × T | 3 | 0.014494792 | 0.0048316 | 55.883534 | .0000 \*\*\* |
| S × V × T | 9 | 0.012467708 | 0.0013853 | 16.022758 | .0000 \*\*\* |
| Error | 64 | 0.005533333 | 8.6458e-5<- |  |  |
| Total Chl | Stress | 3 | 2.663958333 | 0.8879861 | 313.06157 | .0000 \*\*\* |
| Variety | 3 | 0.073433333 | 0.0244778 | 8.6296976 | .0001 \*\*\* |
| Treatment | 1 | 0.1734 | 0.1734 | 61.132574 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.080941667 | 0.0089935 | 3.1706859 | .0032 \*\* |
| S × T | 3 | 0.002508333 | 8.3611e-4 | 0.2947729 | .8290 ns |
| V × T | 3 | 0.006966667 | 0.0023222 | 0.8187049 | .4883 ns |
| S × V × T | 9 | 0.052458333 | 0.0058287 | 2.0549231 | .0471 \* |
| Error | 64 | 0.181533333 | 0.0028365<- |  |  |
| Chl a/b | Stress | 3 | 16.04174479 | 5.3472483 | 241.75183 | .0000 \*\*\* |
| Variety | 3 | 16.85891979 | 5.6196399 | 254.0668 | .0000 \*\*\* |
| Treatment | 1 | 2.538251042 | 2.538251 | 114.75563 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 22.97390104 | 2.5526557 | 115.40687 | .0000 \*\*\* |
| S × T | 3 | 0.309861458 | 0.1032872 | 4.669665 | .0052 \*\* |
| V × T | 3 | 0.463886458 | 0.1546288 | 6.990848 | .0004 \*\*\* |
| S × V × T | 9 | 1.278284375 | 0.1420316 | 6.4213212 | .0000 \*\*\* |
| Error | 64 | 1.4156 | 0.0221188<- |  |  |
| CAR | Stress | 3 | 0.0185375 | 0.0061792 | 82.388889 | .0000 \*\*\* |
| Variety | 3 | 0.0222375 | 0.0074125 | 98.833333 | .0000 \*\*\* |
| Treatment | 1 | 0.230104167 | 0.2301042 | 3068.0556 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.004720833 | 5.2454e-4 | 6.9938272 | .0000 \*\*\* |
| S × T | 3 | 0.0091375 | 0.0030458 | 40.611111 | .0000 \*\*\* |
| V × T | 3 | 0.0222375 | 0.0074125 | 98.833333 | .0000 \*\*\* |
| S × V × T | 9 | 0.004720833 | 5.2454e-4 | 6.9938272 | .0000 \*\*\* |
| Error | 64 | 0.0048 | 7.5e-5<- |  |  |

Table 5S Effect of exogenous applied 100µM NO on Non Enzymatic Antioxidant in four cultivars of *Brassica oleracea* grown under 0, 5, 10 and 20µM Cd concentration.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | df | Type III SS | MS | F | P |
| TAA | Stress | 3 | 520.9282708 | 173.64276 | 520.49073 | .0000 \*\*\* |
| Variety | 3 | 42.02664583 | 14.008882 | 41.991347 | .0000 \*\*\* |
| Treatment | 1 | 437.3334375 | 437.33344 | 1310.8983 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 23.1817125 | 2.5757458 | 7.7207472 | .0000 \*\*\* |
| S × T | 3 | 35.75660417 | 11.918868 | 35.726572 | .0000 \*\*\* |
| V × T | 3 | 34.01164583 | 11.337215 | 33.983079 | .0000 \*\*\* |
| S × V × T | 9 | 10.2967125 | 1.1440792 | 3.4293547 | .0017 \*\* |
| Error | 64 | 21.35126667 | 0.3336135<- |  |  |
| TSP | Stress | 3 | 613.7686458 | 204.58955 | 15712.477 | .0000 \*\*\* |
| Variety | 3 | 24.79947917 | 8.2664931 | 634.86667 | .0000 \*\*\* |
| Treatment | 1 | 2161.252604 | 2161.2526 | 165984.2 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 22.08677083 | 2.4540856 | 188.47378 | .0000 \*\*\* |
| S × T | 3 | 105.5278125 | 35.175938 | 2701.512 | .0000 \*\*\* |
| V × T | 3 | 29.28864583 | 9.7628819 | 749.78933 | .0000 \*\*\* |
| S × V × T | 9 | 5.702604167 | 0.6336227 | 48.662222 | .0000 \*\*\* |
| Error | 64 | 0.833333333 | 0.0130208<- |  |  |

Table 6S Effect of exogenous applied 100µM NO on Total Phenolic Content & Total Flavonoid Content in four cultivars of *Brassica oleracea* grown under 0, 5, 10 and 20µM Cd concentration.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | df | SS | MS | F | P |
| TPC | Stress | 3 | 3.516394792 | 1.1721316 | 577.34548 | .0000 \*\*\* |
| Variety | 3 | 0.486186458 | 0.1620622 | 79.825381 | .0000 \*\*\* |
| Treatment | 1 | 114.472176 | 114.47218 | 56384.448 | .0000 \*\*\* |
| Interaction |  | | | | |
| S × V | 9 | 0.181634375 | 0.0201816 | 9.9406533 | .0000 \*\*\* |
| S × T | 3 | 2.627186458 | 0.8757288 | 431.34924 | .0000 \*\*\* |
| V × T | 3 | 0.444061458 | 0.1480205 | 72.909013 | .0000 \*\*\* |
| S × V × T | 9 | 0.198292708 | 0.0220325 | 10.852346 | .0000 \*\*\* |
| Error | 64 | 0.129933333 | 0.0020302<- |  |  |
| Flavonoid | Stress | 3 | 82220.31206 | 27406.771 | 88177.235 | .0000 \*\*\* |
| Variety | 3 | 19119.77761 | 6373.2592 | 20505.02 | .0000 \*\*\* |
| Treatment | 1 | 31305.5655 | 31305.566 | 100721.03 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 22957.31045 | 2550.8123 | 8206.8616 | .0000 \*\*\* |
| S × T | 3 | 1569.550186 | 523.1834 | 1683.2653 | .0000 \*\*\* |
| V × T | 3 | 693.1579031 | 231.05263 | 743.37771 | .0000 \*\*\* |
| S × V × T | 9 | 4524.954326 | 502.7727 | 1617.5969 | .0000 \*\*\* |
| Error | 64 | 19.89213333 | 0.3108146<- |  |  |

Table 7S Effect of exogenous applied 100µM NO on Enzymatic Antioxidant in four cultivars of *Brassica oleracea* grown under 0, 5, 10 and 20µM Cd concentration.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | df | SS | MS | F | P |
| MDA | Stress | 3 | 5.132403125 | 1.710801 | 254.23669 | .0000 \*\*\* |
| Variety | 3 | 54.39943646 | 18.133145 | 2694.7089 | .0000 \*\*\* |
| Treatment | 1 | 6.237301042 | 6.237301 | 926.90542 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 7.015359375 | 0.7794844 | 115.83669 | .0000 \*\*\* |
| S × T | 3 | 25.05143646 | 8.3504788 | 1240.938 | .0000 \*\*\* |
| V × T | 3 | 0.721686458 | 0.2405622 | 35.749174 | .0000 \*\*\* |
| S × V × T | 9 | 2.826826042 | 0.3140918 | 46.676178 | .0000 \*\*\* |
| Error | 64 | 0.430666667 | 0.0067292<- |  |  |
| CAT | Stress | 3 | 0.627836458 | 0.2092788 | 1217.6222 | .0000 \*\*\* |
| Variety | 3 | 0.071011458 | 0.0236705 | 137.71919 | .0000 \*\*\* |
| Treatment | 1 | 0.235026042 | 0.235026 | 1367.4242 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.029201042 | 0.0032446 | 18.877441 | .0000 \*\*\* |
| S × T | 3 | 0.013294792 | 0.0044316 | 25.783838 | .0000 \*\*\* |
| V × T | 3 | 0.013203125 | 0.004401 | 25.606061 | .0000 \*\*\* |
| S × V × T | 9 | 0.028826042 | 0.0032029 | 18.635017 | .0000 \*\*\* |
| Error | 64 | 0.011 | 1.7188e-4<- |  |  |
| POD | Stress | 3 | 0.208341667 | 0.0694472 | 469.50235 | .0000 \*\*\* |
| Variety | 3 | 0.260658333 | 0.0868861 | 587.39906 | .0000 \*\*\* |
| Treatment | 1 | 0.828816667 | 0.8288167 | 5603.2676 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 0.03875 | 0.0043056 | 29.107981 | .0000 \*\*\* |
|  |  |  |  |  |  |
| S × T | 3 | 0.098725 | 0.0329083 | 222.47887 | .0000 \*\*\* |
| V × T | 3 | 0.508941667 | 0.1696472 | 1146.9108 | .0000 \*\*\* |
| S × V × T | 9 | 0.06035 | 0.0067056 | 45.333333 | .0000 \*\*\* |
| Error | 64 | 0.009466667 | 1.4792e-4<- |  |  |
| SOD | Stress | 3 | 57.83638646 | 19.278795 | 1680.9849 | .0000 \*\*\* |
| Variety | 3 | 0.931978125 | 0.3106594 | 27.087466 | .0000 \*\*\* |
| Treatment | 1 | 3.852009375 | 3.8520094 | 335.87003 | .0000 \*\*\* |
| Interaction | | | | | |
| S × V | 9 | 2.973992708 | 0.3304436 | 28.812524 | .0000 \*\*\* |
| S × T | 3 | 8.272369792 | 2.7574566 | 240.43218 | .0000 \*\*\* |
| V × T | 3 | 0.085578125 | 0.028526 | 2.4872843 | .0684 ns |
| S × V × T | 9 | 0.132859375 | 0.0147622 | 1.2871632 | .2613 ns |
| Error | 64 | 0.734 | 0.0114688<- |  |  |