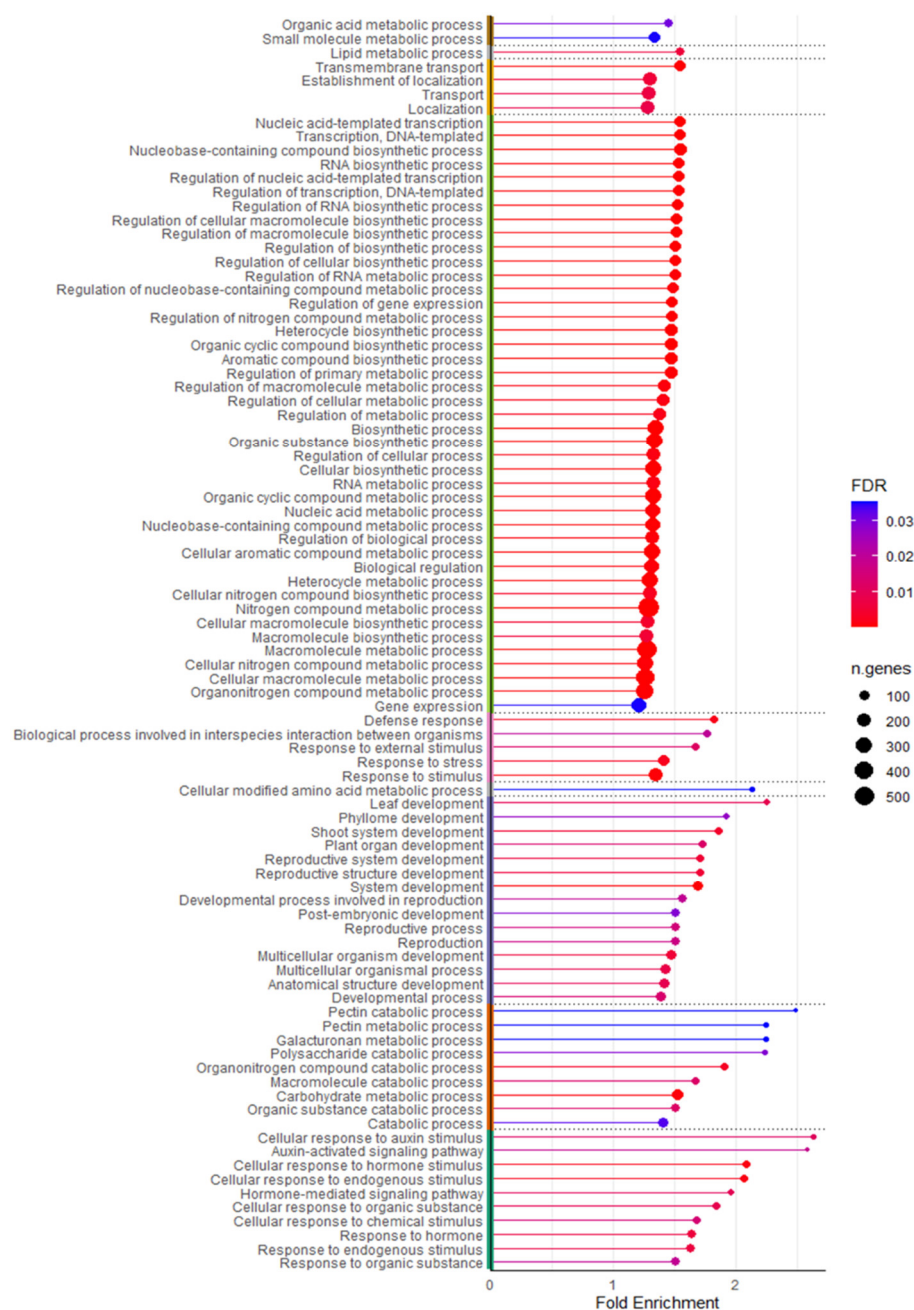**Figure S1**. Volcano plots showing DEG genes (p-value<0.05) at 24 h and 48 h after BSE treatment, for each tested BSE concentration. Green and orange dots are genes not DE for the p-value or the FC; Red dots are up-regulated genes (p-value<0.05); Blue dots are down-regulated genes (p-value < 0.05); Purple dots are genes DE according to the adjusted p-value (p-adj<0.1).

**Figure S2.** Enrichment chart showing fold enrichment analysis of GO biological processes for up-regulated genes after ANE treatment. The cluster analysis based on similarity is also reported, and a dashed line separates each homogeneous group. In each cluster, pathways are in descending order.
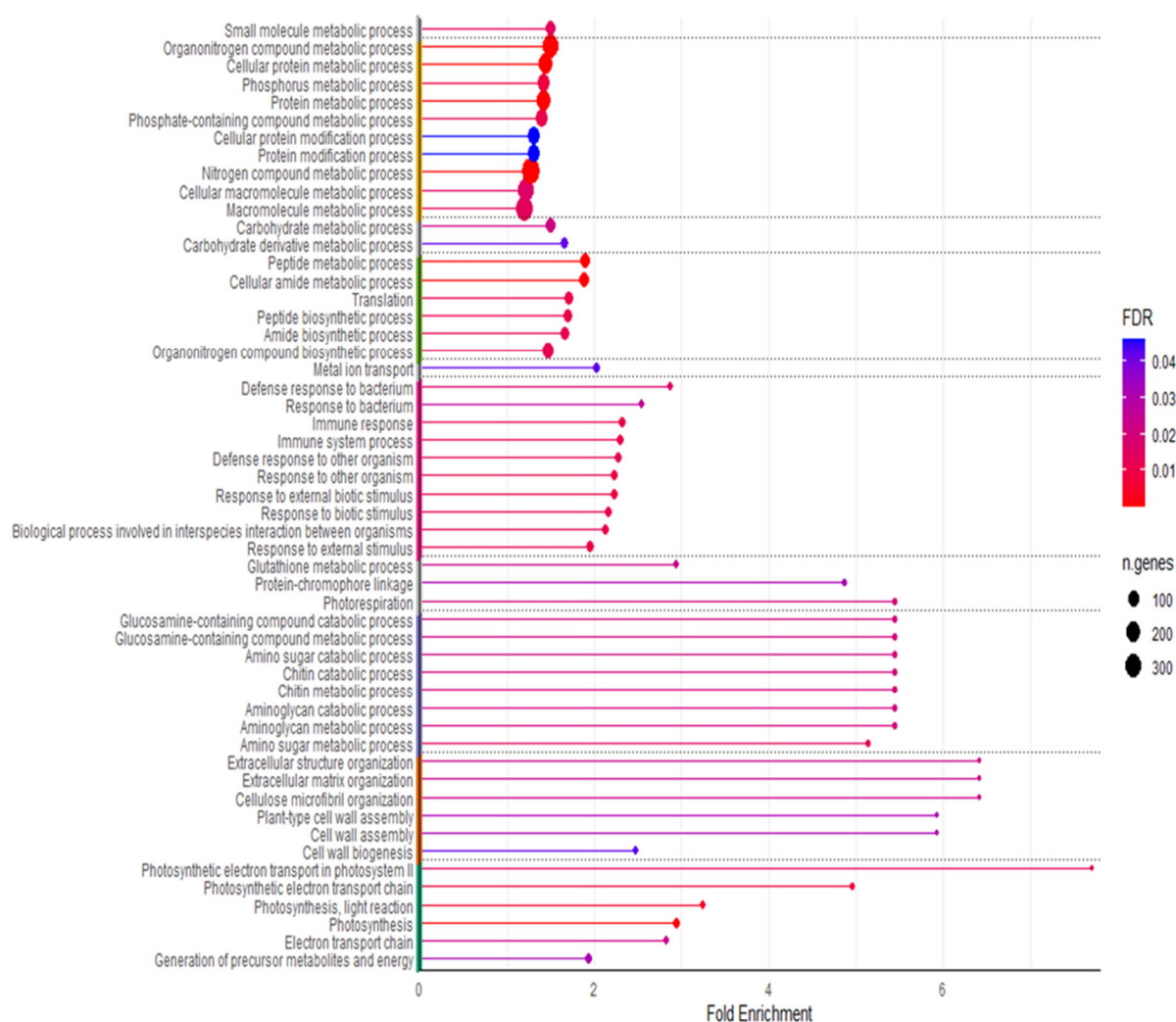
**Figure S3**. Enrichment chart showing fold enrichment analysis of GO biological processes for down-regulated genes after ANE treatment. The cluster analysis based on similarity is also reported, and each homogeneous group is separated by a dashed line. In each cluster, pathways are in descending order.

**One Way Analysis of Variance**

Dependent Variable: PYL4

**Equal Variance Test (Brown-Forsythe):**     Passed (P = 0,057)

| Group Name | N | Missing | Mean | Std Dev | SEM |
|---|---|---|---|---|---|
| 0 ml l$^{-1}$ 24 h | 9 | 0 | 0,766 | 0,153 | 0,0511 |
| 0 ml l$^{-1}$ 48 h | 9 | 0 | 0,857 | 0,239 | 0,0797 |
| 4 ml l$^{-1}$ 24 h | 9 | 0 | 1,386 | 0,297 | 0,0989 |
| 4 ml l$^{-1}$ 48 h | 9 | 0 | 1,312 | 0,295 | 0,0982 |
| 2 ml l$^{-1}$ 24 h | 9 | 0 | 0,593 | 0,114 | 0,0379 |
| 2 ml l$^{-1}$ 48 h | 9 | 0 | 0,421 | 0,0752 | 0,0251 |
| 1 ml l$^{-1}$ 24 h | 9 | 0 | 0,479 | 0,161 | 0,0537 |
| 1 ml l$^{-1}$ 48 h | 9 | 0 | 0,730 | 0,142 | 0,0474 |

| Source of Variation | DF | SS | MS | F | P |
|---|---|---|---|---|---|
| Between Groups | 7 | 8,112 | 1,159 | 28,957 | <0,001 |
| Residual | 64 | 2,561 | 0,0400 | | |
| Total | 71 | 10,674 | | | |

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = <0,001).

Power of performed test with alpha = 0,050: 1,000

All Pairwise Multiple Comparison Procedures (Duncan's Method):

Comparisons for factor: **Treatment**

| Comparison | Diff of Means | p | q | P | P<0,050 |
|---|---|---|---|---|---|
| 4 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 48 | 0,964 | 8 | 14,463 | <0,001 | Yes |
| 4 ml l$^{-1}$ 24 vs. 1 ml l$^{-1}$ 24 | 0,907 | 7 | 13,596 | <0,001 | Yes |
| 4 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 24 | 0,792 | 6 | 11,880 | <0,001 | Yes |
| 4 ml l$^{-1}$ 24 vs. 1 ml l$^{-1}$ 48 | 0,656 | 5 | 9,831 | <0,001 | Yes |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,620 | 4 | 9,297 | <0,001 | Yes |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 48 | 0,529 | 3 | 7,931 | <0,001 | Yes |
| 4 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 48 | 0,0733 | 2 | 1,100 | 0,440 | No |
| 4 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 48 | 0,891 | 7 | 13,363 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 24 | 0,833 | 6 | 12,497 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 24 | 0,719 | 5 | 10,780 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 48 | 0,582 | 4 | 8,731 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,547 | 3 | 8,198 | <0,001 | Yes |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4 ml $l^{-1}$ 48 vs. 0 ml $l^{-1}$ 48 | 0,456 | 2 | 6,831 | <0,001 | Yes |
| 0 ml $l^{-1}$ 48 vs. 2 ml $l^{-1}$ 48 | 0,436 | 6 | 6,532 | <0,001 | Yes |
| 0 ml $l^{-1}$ 48 vs. 1 ml $l^{-1}$ 24 | 0,378 | 5 | 5,665 | <0,001 | Yes |
| 0 ml $l^{-1}$ 48 vs. 2 ml $l^{-1}$ 24 | 0,263 | 4 | 3,949 | 0,011 | Yes |
| 0 ml $l^{-1}$ 48 vs. 1 ml $l^{-1}$ 48 | 0,127 | 3 | 1,899 | 0,211 | No |
| 0 ml $l^{-1}$ 48 vs. 0 ml $l^{-1}$ 24 | 0,0911 | 2 | 1,366 | 0,338 | Do Not Test |
| 0 ml $l^{-1}$ 24 vs. 2 ml $l^{-1}$ 48 | 0,344 | 5 | 5,165 | 0,001 | Yes |
| 0 ml $l^{-1}$ 24 vs. 1 ml $l^{-1}$ 24 | 0,287 | 4 | 4,299 | 0,006 | Yes |
| 0 ml $l^{-1}$ 24 vs. 2 ml $l^{-1}$ 24 | 0,172 | 3 | 2,583 | 0,089 | No |
| 0 ml $l^{-1}$ 24 vs. 1 ml $l^{-1}$ 48 | 0,0356 | 2 | 0,533 | 0,708 | Do Not Test |
| 1 ml $l^{-1}$ 48 vs. 2 ml $l^{-1}$ 48 | 0,309 | 4 | 4,632 | 0,003 | Yes |
| 1 ml $l^{-1}$ 48 vs. 1 ml $l^{-1}$ 24 | 0,251 | 3 | 3,766 | 0,013 | Yes |
| 1 ml $l^{-1}$ 48 vs. 2 ml $l^{-1}$ 24 | 0,137 | 2 | 2,049 | 0,152 | Do Not Test |
| 2 ml $l^{-1}$ 24 vs. 2 ml $l^{-1}$ 48 | 0,172 | 3 | 2,583 | 0,089 | No |
| 2 ml $l^{-1}$ 24 vs. 1 ml $l^{-1}$ 24 | 0,114 | 2 | 1,716 | 0,229 | Do Not Test |
| 1 ml $l^{-1}$ 24 vs. 2 ml $l^{-1}$ 48 | 0,0578 | 2 | 0,866 | 0,542 | Do Not Test |

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison.  For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1).  Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

**One Way Analysis of Variance**

Dependent Variable: PP2C 62

**Equal Variance Test (Brown-Forsythe):**    Passed (P = 0,140)

| Group Name | N | Missing | Mean | Std Dev | SEM |
|---|---|---|---|---|---|
| 0 ml l$^{-1}$ 24 h | 9 | 0 | 1,044 | 0,565 | 0,188 |
| 0 ml l$^{-1}$ 48 h | 9 | 0 | 1,486 | 0,632 | 0,211 |
| 4 ml l$^{-1}$ 24 h | 9 | 0 | 1,861 | 0,921 | 0,307 |
| 4 ml l$^{-1}$ 48 h | 9 | 0 | 2,554 | 0,884 | 0,295 |
| 2 ml l$^{-1}$ 24 h | 9 | 0 | 0,901 | 0,308 | 0,103 |
| 2 ml l$^{-1}$ 48 h | 9 | 0 | 0,627 | 0,226 | 0,0752 |
| 1 ml l$^{-1}$ 24 h | 9 | 0 | 1,870 | 0,995 | 0,332 |
| 1 ml l$^{-1}$ 48 h | 9 | 0 | 1,811 | 0,874 | 0,291 |

| Source of Variation | DF | SS | MS | F | P |
|---|---|---|---|---|---|
| Between Groups | 7 | 25,219 | 3,603 | 6,784 | <0,001 |
| Residual | 64 | 33,988 | 0,531 | | |
| Total | 71 | 59,207 | | | |

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference  (P = <0,001).

Power of performed test with alpha = 0,050: 0,998

All Pairwise Multiple Comparison Procedures (Duncan's Method):

Comparisons for factor: **Treatment**

| Comparison | Diff of Means | p | q | P | P<0,050 |
|---|---|---|---|---|---|
| 4 ml l$^{-1}$ 48  vs. 2 ml l$^{-1}$ 48 | 1,928 | 8 | 7,936 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48  vs. 2 ml l$^{-1}$ 24 | 1,653 | 7 | 6,806 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 24 | 1,510 | 6 | 6,216 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 48 | 1,069 | 5 | 4,400 | 0,006 | Yes |
| 4 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 48 | 0,743 | 4 | 3,060 | 0,051 | No |
| 4 ml l$^{-1}$ 48  vs. 4 ml l$^{-1}$ 24 | 0,693 | 3 | 2,854 | 0,060 | Do Not Test |
| 4 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 24 | 0,684 | 2 | 2,818 | 0,051 | Do Not Test |
| 1 ml l$^{-1}$ 24  vs. 2 ml l$^{-1}$ 48 | 1,243 | 7 | 5,118 | 0,002 | Yes |
| 1 ml l$^{-1}$ 24  vs. 2 ml l$^{-1}$ 24 | 0,969 | 6 | 3,989 | 0,014 | Yes |
| 1 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 24 | 0,826 | 5 | 3,399 | 0,034 | Yes |
| 1 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 48 | 0,384 | 4 | 1,583 | 0,315 | No |
| 1 ml l$^{-1}$ 24  vs. 1 ml l$^{-1}$ 48 | 0,0589 | 3 | 0,242 | 0,874 | Do Not Test |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 ml l⁻¹ 24  vs. 4 ml l⁻¹ 24 | 0,00889 | | 2 | 0,0366 | 0,980 | Do Not Test |
| 4 ml l⁻¹ 24  vs. 2 ml l⁻¹ 48 | 1,234 | 6 | 5,082 | 0,002 | Yes | |
| 4 ml l⁻¹ 24  vs. 2 ml l⁻¹ 24 | 0,960 | 5 | 3,952 | 0,013 | Yes | |
| 4 ml l⁻¹ 24  vs. 0 ml l⁻¹ 24 | 0,817 | 4 | 3,362 | 0,032 | Yes | |
| 4 ml l⁻¹ 24  vs. 0 ml l⁻¹ 48 | 0,376 | 3 | 1,546 | 0,308 | Do Not Test | |
| 4 ml l⁻¹ 24  vs. 1 ml l⁻¹ 48 | 0,0500 | 2 | 0,206 | 0,885 | Do Not Test | |
| 1 ml l⁻¹ 48  vs. 2 ml l⁻¹ 48 | 1,184 | 5 | 4,876 | 0,002 | Yes | |
| 1 ml l⁻¹ 48  vs. 2 ml l⁻¹ 24 | 0,910 | 4 | 3,746 | 0,017 | Yes | |
| 1 ml l⁻¹ 48  vs. 0 ml l⁻¹ 24 | 0,767 | 3 | 3,156 | 0,037 | Yes | |
| 1 ml l⁻¹ 48  vs. 0 ml l⁻¹ 48 | 0,326 | 2 | 1,340 | 0,347 | Do Not Test | |
| 0 ml l⁻¹ 48  vs. 2 ml l⁻¹ 48 | 0,859 | 4 | 3,536 | 0,024 | Yes | |
| 0 ml l⁻¹ 48  vs. 2 ml l⁻¹ 24 | 0,584 | 3 | 2,406 | 0,113 | No | |
| 0 ml l⁻¹ 48  vs. 0 ml l⁻¹ 24 | 0,441 | 2 | 1,816 | 0,204 | Do Not Test | |
| 0 ml l⁻¹ 24  vs. 2 ml l⁻¹ 48 | 0,418 | 3 | 1,720 | 0,257 | No | |
| 0 ml l⁻¹ 24  vs. 2 ml l⁻¹ 24 | 0,143 | 2 | 0,590 | 0,678 | Do Not Test | |
| 2 ml l⁻¹ 24  vs. 2 ml l⁻¹ 48 | 0,274 | 2 | 1,130 | 0,427 | Do Not Test | |

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison.  For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1).  Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

**One Way Analysis of Variance**

Dependent Variable: MYB23

**Equal Variance Test (Brown-Forsythe):**    Passed (P = 0,182)

| Group Name | N | Missing | Mean | Std Dev | SEM |
|---|---|---|---|---|---|
| 0 ml l$^{-1}$ 24 h | 9 | 0 | 0,588 | 0,247 | 0,0824 |
| 0 ml l$^{-1}$ 48 h | 9 | 0 | 0,964 | 0,633 | 0,211 |
| 4 ml l$^{-1}$ 24 h | 9 | 0 | 0,934 | 0,186 | 0,0620 |
| 4 ml l$^{-1}$ 48 h | 9 | 0 | 1,744 | 0,914 | 0,305 |
| 2 ml l$^{-1}$ 24 h | 9 | 0 | 2,394 | 0,671 | 0,224 |
| 2 ml l$^{-1}$ 48 h | 9 | 0 | 1,796 | 0,821 | 0,274 |
| 1 ml l$^{-1}$ 24 h | 9 | 0 | 1,277 | 0,718 | 0,239 |
| 1 ml l$^{-1}$ 48 h | 9 | 0 | 1,127 | 0,938 | 0,313 |

| Source of Variation | DF | SS | MS | F | P |
|---|---|---|---|---|---|
| Between Groups | 7 | 21,622 | 3,089 | 6,418 | <0,001 |
| Residual | 64 | 30,804 | 0,481 | | |
| Total | 71 | 52,426 | | | |

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference  (P = <0,001).

Power of performed test with alpha = 0,050: 0,997

All Pairwise Multiple Comparison Procedures (Duncan's Method) :

Comparisons for factor: **Treatment**

| Comparison | Diff of Means | p | q | P | P<0,050 |
|---|---|---|---|---|---|
| 2 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 24 | 1,807 | 8 | 7,812 | <0,001 | Yes |
| 2 ml l$^{-1}$ 24  vs. 4 ml l$^{-1}$ 24 | 1,460 | 7 | 6,313 | <0,001 | Yes |
| 2 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 48 | 1,430 | 6 | 6,184 | <0,001 | Yes |
| 2 ml l$^{-1}$ 24  vs. 1 ml l$^{-1}$ 48 | 1,268 | 5 | 5,482 | <0,001 | Yes |
| 2 ml l$^{-1}$ 24  vs. 1 ml l$^{-1}$ 24 | 1,118 | 4 | 4,834 | 0,002 | Yes |
| 2 ml l$^{-1}$ 24  vs. 4 ml l$^{-1}$ 48 | 0,650 | 3 | 2,811 | 0,064 | No |
| 2 ml l$^{-1}$ 24  vs. 2 ml l$^{-1}$ 48 | 0,599 | 2 | 2,590 | 0,072 | Do Not Test |
| 2 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 24 | 1,208 | 7 | 5,223 | 0,001 | Yes |
| 2 ml l$^{-1}$ 48  vs. 4 ml l$^{-1}$ 24 | 0,861 | 6 | 3,724 | 0,022 | Yes |
| 2 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 48 | 0,831 | 5 | 3,594 | 0,024 | Yes |
| 2 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 48 | 0,669 | 4 | 2,892 | 0,065 | No |
| 2 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 24 | 0,519 | 3 | 2,244 | 0,139 | Do Not Test |

| | | | | |
|---|---|---|---|---|
| 2 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 48 | 0,0511 2 | 0,221 | 0,876 | Do Not Test |
| 4 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 1,157 6 | 5,002 | 0,002 | Yes |
| 4 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,810 5 | 3,503 | 0,028 | Yes |
| 4 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 48 | 0,780 4 | 3,373 | 0,031 | Yes |
| 4 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 48 | 0,618 3 | 2,671 | 0,078 | Do Not Test |
| 4 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 24 | 0,468 2 | 2,023 | 0,158 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,689 5 | 2,979 | 0,063 | No |
| 1 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 24 | 0,342 4 | 1,480 | 0,348 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 48 | 0,312 3 | 1,350 | 0,374 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 1 ml l$^{-1}$ 48 | 0,150 2 | 0,649 | 0,648 | Do Not Test |
| 1 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,539 4 | 2,330 | 0,138 | Do Not Test |
| 1 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,192 3 | 0,831 | 0,584 | Do Not Test |
| 1 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 48 | 0,162 2 | 0,701 | 0,622 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,377 3 | 1,629 | 0,283 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,0300 2 | 0,130 | 0,927 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,347 2 | 1,499 | 0,293 | Do Not Test |

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison.  For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1).  Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

**One Way Analysis of Variance**

Dependent Variable: ARF19

**Equal Variance Test (Brown-Forsythe):** Failed  (P < 0,050)

| Group Name | N | Missing | Mean | Std Dev | SEM |
|---|---|---|---|---|---|
| 0 ml l$^{-1}$ 24 h | 9 | 0 | 1,558 | 0,712 | 0,237 |
| 0 ml l$^{-1}$ 48 h | 9 | 0 | 1,842 | 0,967 | 0,322 |
| 4 ml l$^{-1}$ 24 h | 9 | 0 | 1,962 | 0,371 | 0,124 |
| 4 ml l$^{-1}$ 48 h | 9 | 0 | 2,516 | 0,366 | 0,122 |
| 2 ml l$^{-1}$ 24 h | 9 | 0 | 1,624 | 0,768 | 0,256 |
| 2 ml l$^{-1}$ 48 h | 9 | 0 | 1,439 | 0,445 | 0,148 |
| 1 ml l$^{-1}$ 24 h | 9 | 0 | 1,792 | 0,255 | 0,0849 |
| 1 ml l$^{-1}$ 48 h | 9 | 0 | 2,288 | 0,439 | 0,146 |

| Source of Variation | DF | SS | MS | F | P |
|---|---|---|---|---|---|
| Between Groups | 7 | 8,548 | 1,221 | 3,541 | 0,003 |
| Residual | 64 | 22,070 | 0,345 | | |
| Total | 71 | 30,618 | | | |

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference  (P = 0,003).

Power of performed test with alpha = 0,050: 0,848

All Pairwise Multiple Comparison Procedures (Duncan's Method) :

Comparisons for factor: **Treatment**

| Comparison | Diff of Means | p | q | P | P<0,050 |
|---|---|---|---|---|---|
| 4 ml l$^{-1}$ 48  vs. 2 ml l$^{-1}$ 48 | 1,077 | 8 | 5,500 | <0,001 | Yes |
| 4 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 24 | 0,958 | 7 | 4,893 | 0,003 | Yes |
| 4 ml l$^{-1}$ 48  vs. 2 ml l$^{-1}$ 24 | 0,891 | 6 | 4,552 | 0,005 | Yes |
| 4 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 24 | 0,723 | 5 | 3,695 | 0,021 | Yes |
| 4 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 48 | 0,673 | 4 | 3,440 | 0,028 | Yes |
| 4 ml l$^{-1}$ 48  vs. 4 ml l$^{-1}$ 24 | 0,553 | 3 | 2,827 | 0,062 | No |
| 4 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 48 | 0,228 | 2 | 1,164 | 0,414 | Do Not Test |
| 1 ml l$^{-1}$ 48  vs. 2 ml l$^{-1}$ 48 | 0,849 | 7 | 4,337 | 0,008 | Yes |
| 1 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 24 | 0,730 | 6 | 3,729 | 0,022 | Yes |
| 1 ml l$^{-1}$ 48  vs. 2 ml l$^{-1}$ 24 | 0,663 | 5 | 3,389 | 0,034 | Yes |
| 1 ml l$^{-1}$ 48  vs. 1 ml l$^{-1}$ 24 | 0,496 | 4 | 2,532 | 0,107 | No |
| 1 ml l$^{-1}$ 48  vs. 0 ml l$^{-1}$ 48 | 0,446 | 3 | 2,276 | 0,133 | Do Not Test |

| | | | | | |
|---|---|---|---|---|---|
| 1 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,326 | 2 | 1,663 | 0,244 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 48 | 0,523 | 6 | 2,674 | 0,102 | No |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,404 | 5 | 2,066 | 0,200 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 24 | 0,338 | 4 | 1,726 | 0,273 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 1 ml l$^{-1}$ 24 | 0,170 | 3 | 0,868 | 0,568 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 48 | 0,120 | 2 | 0,613 | 0,666 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 48 | 0,403 | 5 | 2,061 | 0,202 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,284 | 4 | 1,453 | 0,357 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 24 | 0,218 | 3 | 1,113 | 0,464 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 24 | 0,0500 | 2 | 0,255 | 0,857 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 48 | 0,353 | 4 | 1,805 | 0,252 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,234 | 3 | 1,198 | 0,430 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 24 | 0,168 | 2 | 0,857 | 0,547 | Do Not Test |
| 2 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 48 | 0,186 | 3 | 0,948 | 0,533 | Do Not Test |
| 2 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,0667 | 2 | 0,341 | 0,811 | Do Not Test |
| 0 ml l$^{-1}$ 24 vs. 2 ml l$^{-1}$ 48 | 0,119 | 2 | 0,607 | 0,669 | Do Not Test |

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison.  For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1).  Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

**One Way Analysis of Variance**

Dependent Variable: NH30

**Equal Variance Test (Brown-Forsythe):**   Passed (P = 0,464)

| Group Name | N | Missing | Mean | Std Dev | SEM |
|---|---|---|---|---|---|
| 0 ml l⁻¹ 24 h | 9 | 0 | 1,303 | 0,608 | 0,203 |
| 0 ml l⁻¹ 48 h | 9 | 3 | 2,503 | 0,232 | 0,0948 |
| 4 ml l⁻¹ 24 h | 9 | 0 | 1,741 | 0,324 | 0,108 |
| 4 ml l⁻¹ 48 h | 9 | 2 | 2,036 | 0,459 | 0,173 |
| 2 ml l⁻¹ 24 h | 9 | 0 | 2,272 | 0,325 | 0,108 |
| 2 ml l⁻¹ 48 h | 9 | 2 | 2,344 | 0,528 | 0,199 |
| 1 ml l⁻¹ 24 h | 9 | 0 | 2,151 | 0,239 | 0,0798 |
| 1 ml l⁻¹ 48 h | 9 | 3 | 2,732 | 0,393 | 0,160 |

| Source of Variation | DF | SS | MS | F | P |
|---|---|---|---|---|---|
| Between Groups | 7 | 10,965 | 1,566 | 9,325 | <0,001 |
| Residual | 54 | 9,071 | 0,168 | | |
| Total | 61 | 20,036 | | | |

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference  (P = <0,001).

Power of performed test with alpha = 0,050: 1,000

All Pairwise Multiple Comparison Procedures (Duncan's Method) :

Comparisons for factor: **Treatment**

| Comparison | Diff of Means | p | q | P | P<0,050 |
|---|---|---|---|---|---|
| 1 ml l⁻¹ 48  vs. 0 ml l⁻¹ 24 | 1,428 | 8 | 9,351 | <0,001 | Yes |
| 1 ml l⁻¹ 48  vs. 4 ml l⁻¹ 24 | 0,991 | 7 | 6,485 | <0,001 | Yes |
| 1 ml l⁻¹ 48  vs. 4 ml l⁻¹ 48 | 0,696 | 6 | 4,316 | 0,008 | Yes |
| 1 ml l⁻¹ 48  vs. 1 ml l⁻¹ 24 | 0,581 | 5 | 3,801 | 0,018 | Yes |
| 1 ml l⁻¹ 48  vs. 2 ml l⁻¹ 24 | 0,459 | 4 | 3,008 | 0,056 | No |
| 1 ml l⁻¹ 48  vs. 2 ml l⁻¹ 48 | 0,387 | 3 | 2,403 | 0,114 | Do Not Test |
| 1 ml l⁻¹ 48  vs. 0 ml l⁻¹ 48 | 0,228 | 2 | 1,365 | 0,339 | Do Not Test |
| 0 ml l⁻¹ 48  vs. 0 ml l⁻¹ 24 | 1,200 | 7 | 7,856 | <0,001 | Yes |
| 0 ml l⁻¹ 48  vs. 4 ml l⁻¹ 24 | 0,762 | 6 | 4,990 | 0,002 | Yes |
| 0 ml l⁻¹ 48  vs. 4 ml l⁻¹ 48 | 0,468 | 5 | 2,900 | 0,071 | No |
| 0 ml l⁻¹ 48  vs. 1 ml l⁻¹ 24 | 0,352 | 4 | 2,306 | 0,143 | Do Not Test |
| 0 ml l⁻¹ 48  vs. 2 ml l⁻¹ 24 | 0,231 | 3 | 1,513 | 0,319 | Do Not Test |

| Comparison | Diff of Means | p | q | P | P<0.05 |
|---|---|---|---|---|---|
| 0 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 48 | 0,159 | 2 | 0,986 | 0,489 | Do Not Test |
| 2 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 1,041 | 6 | 7,127 | <0,001 | Yes |
| 2 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,603 | 5 | 4,130 | 0,010 | Yes |
| 2 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 48 | 0,309 | 4 | 1,992 | 0,206 | Do Not Test |
| 2 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 24 | 0,193 | 3 | 1,323 | 0,384 | Do Not Test |
| 2 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 24 | 0,0721 | 2 | 0,493 | 0,729 | Do Not Test |
| 2 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,969 | 5 | 7,092 | <0,001 | Yes |
| 2 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 24 | 0,531 | 4 | 3,888 | 0,013 | Yes |
| 2 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 48 | 0,237 | 3 | 1,619 | 0,287 | Do Not Test |
| 2 ml l$^{-1}$ 24 vs. 1 ml l$^{-1}$ 24 | 0,121 | 2 | 0,886 | 0,534 | Do Not Test |
| 1 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,848 | 4 | 6,205 | <0,001 | Yes |
| 1 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 24 | 0,410 | 3 | 3,001 | 0,049 | Yes |
| 1 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 48 | 0,115 | 2 | 0,790 | 0,579 | Do Not Test |
| 4 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,732 | 3 | 5,015 | 0,001 | Yes |
| 4 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,295 | 2 | 2,017 | 0,160 | No |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,438 | 2 | 3,204 | 0,028 | Yes |

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison. For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

**One Way Analysis of Variance**

Dependent Variable: YUCCA6

**Equal Variance Test (Brown-Forsythe):**    Passed (P = 0,829)

| Group Name | N | Missing | Mean | Std Dev | SEM |
|---|---|---|---|---|---|
| 0 ml l$^{-1}$ 24 h | 9 | 0 | 1,189 | 0,519 | 0,173 |
| 0 ml l$^{-1}$ 48 h | 9 | 0 | 1,258 | 0,562 | 0,187 |
| 4 ml l$^{-1}$ 24 h | 9 | 0 | 1,503 | 0,607 | 0,202 |
| 4 ml l$^{-1}$ 48 h | 9 | 0 | 2,087 | 0,682 | 0,227 |
| 2 ml l$^{-1}$ 24 h | 9 | 0 | 2,126 | 0,567 | 0,189 |
| 2 ml l$^{-1}$ 48 h | 9 | 0 | 1,688 | 0,352 | 0,117 |
| 1 ml l$^{-1}$ 24 h | 9 | 3 | 2,937 | 0,541 | 0,221 |
| 1 ml l$^{-1}$ 48 h | 9 | 0 | 1,977 | 0,548 | 0,183 |

| Source of Variation | DF | SS | MS | F | P |
|---|---|---|---|---|---|
| Between Groups | 7 | 16,639 | 2,377 | 7,723 | <0,001 |
| Residual | 61 | 18,775 | 0,308 | | |
| Total | 68 | 35,414 | | | |

The differences in the mean values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference  (P = <0,001).

Power of performed test with alpha = 0,050: 1,000

All Pairwise Multiple Comparison Procedures (Duncan's Method) :

Comparisons for factor: **Treatment**

| Comparison | Diff of Means | p | q | P | P<0,050 |
|---|---|---|---|---|---|
| 1 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 24 | 1,748 | 8 | 8,453 | <0,001 | Yes |
| 1 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 48 | 1,679 | 7 | 8,120 | <0,001 | Yes |
| 1 ml l$^{-1}$ 24  vs. 4 ml l$^{-1}$ 24 | 1,433 | 6 | 6,932 | <0,001 | Yes |
| 1 ml l$^{-1}$ 24  vs. 2 ml l$^{-1}$ 48 | 1,249 | 5 | 6,040 | <0,001 | Yes |
| 1 ml l$^{-1}$ 24  vs. 1 ml l$^{-1}$ 48 | 0,960 | 4 | 4,643 | 0,003 | Yes |
| 1 ml l$^{-1}$ 24  vs. 4 ml l$^{-1}$ 48 | 0,850 | 3 | 4,111 | 0,007 | Yes |
| 1 ml l$^{-1}$ 24  vs. 2 ml l$^{-1}$ 24 | 0,811 | 2 | 3,923 | 0,007 | Yes |
| 2 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 24 | 0,937 | 7 | 5,065 | 0,002 | Yes |
| 2 ml l$^{-1}$ 24  vs. 0 ml l$^{-1}$ 48 | 0,868 | 6 | 4,693 | 0,004 | Yes |
| 2 ml l$^{-1}$ 24  vs. 4 ml l$^{-1}$ 24 | 0,622 | 5 | 3,365 | 0,036 | Yes |
| 2 ml l$^{-1}$ 24  vs. 2 ml l$^{-1}$ 48 | 0,438 | 4 | 2,367 | 0,132 | No |
| 2 ml l$^{-1}$ 24  vs. 1 ml l$^{-1}$ 48 | 0,149 | 3 | 0,805 | 0,596 | Do Not Test |

| | | | | | |
|---|---|---|---|---|---|
| 2 ml l$^{-1}$ 24 vs. 4 ml l$^{-1}$ 48 | 0,0389 | 2 | 0,210 | 0,882 | Do Not Test |
| 4 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,898 | 6 | 4,855 | 0,003 | Yes |
| 4 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 48 | 0,829 | 5 | 4,482 | 0,005 | Yes |
| 4 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,583 | 4 | 3,154 | 0,044 | Yes |
| 4 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 48 | 0,399 | 3 | 2,157 | 0,155 | Do Not Test |
| 4 ml l$^{-1}$ 48 vs. 1 ml l$^{-1}$ 48 | 0,110 | 2 | 0,595 | 0,676 | Do Not Test |
| 1 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,788 | 5 | 4,260 | 0,008 | Yes |
| 1 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 48 | 0,719 | 4 | 3,887 | 0,013 | Yes |
| 1 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,473 | 3 | 2,560 | 0,092 | No |
| 1 ml l$^{-1}$ 48 vs. 2 ml l$^{-1}$ 48 | 0,289 | 2 | 1,562 | 0,274 | Do Not Test |
| 2 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,499 | 4 | 2,698 | 0,086 | No |
| 2 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 48 | 0,430 | 3 | 2,325 | 0,126 | Do Not Test |
| 2 ml l$^{-1}$ 48 vs. 4 ml l$^{-1}$ 24 | 0,184 | 2 | 0,997 | 0,483 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 24 | 0,314 | 3 | 1,700 | 0,263 | Do Not Test |
| 4 ml l$^{-1}$ 24 vs. 0 ml l$^{-1}$ 48 | 0,246 | 2 | 1,328 | 0,352 | Do Not Test |
| 0 ml l$^{-1}$ 48 vs. 0 ml l$^{-1}$ 24 | 0,0689 | 2 | 0,373 | 0,793 | Do Not Test |

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison.  For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1).  Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.