**Supplementary data**

**Table S1. Overall difference test (ANOVA) for isopropanol leakage after 24h or 7 days of experiment.**

|  |  |  |
| --- | --- | --- |
| **ANOVA summary** | **Day 1** | **Day 7** |
| F | 12,12 | 36,16 |
| P value | <0,0001 | <0,0001 |
| P value summary | \*\*\*\* | \*\*\*\* |
| Significant diff. among means (P < 0.05)? | Yes | Yes |
| R square | 0,8483 | 0,9435 |

**Table S2. Test of differences (ANOVA) with Tukey’s multiple comparison test performed after 24h of experiment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tukey's multiple comparisons test | Mean Diff, | 95,00% CI of diff, | Significant? | Summary | Adjusted P Value |
| MaxPlus vs. NanoClave | 2,206 | -0,7996 to 5,211 | No | ns | 0,3229 |
| MaxPlus vs. MicroClave | 1,548 | -1,457 to 4,553 | No | ns | 0,7962 |
| MaxPlus vs. Didactic | -2,051 | -5,056 to 0,9542 | No | ns | 0,4254 |
| MaxPlus vs. CareSite | 3,492 | 0,4865 to 6,497 | Yes | \* | 0,0128 |
| MaxPlus vs. Safeflow | 2,650 | -0,3556 to 5,655 | No | ns | 0,1236 |
| MaxPlus vs. Q-Syte | -2,792 | -5,797 to 0,2132 | No | ns | 0,0870 |
| MaxPlus vs. BD Max 0 | 0,3070 | -2,698 to 3,312 | No | ns | >0,9999 |
| MaxPlus vs. Smartsite | 2,828 | -0,1776 to 5,833 | No | ns | 0,0795 |
| MaxPlus vs. Bionector | 3,558 | 0,5526 to 6,563 | Yes | \* | 0,0106 |
| MaxPlus vs. Vadsite | 2,994 | -0,01127 to 5,999 | No | ns | 0,0515 |
| MaxPlus vs. Autoflush | 2,327 | -0,6786 to 5,332 | No | ns | 0,2543 |
| MaxPlus vs. Neutraclear | 0,7810 | -2,224 to 3,786 | No | ns | 0,9987 |
| NanoClave vs. MicroClave | -0,6574 | -3,663 to 2,348 | No | ns | 0,9998 |
| NanoClave vs. Didactic | -4,257 | -7,262 to -1,251 | Yes | \*\* | 0,0013 |
| NanoClave vs. CareSite | 1,286 | -1,719 to 4,291 | No | ns | 0,9283 |
| NanoClave vs. Safeflow | 0,4440 | -2,561 to 3,449 | No | ns | >0,9999 |
| NanoClave vs. Q-Syte | -4,998 | -8,003 to -1,992 | Yes | \*\*\* | 0,0001 |
| NanoClave vs. BD Max 0 | -1,899 | -4,904 to 1,107 | No | ns | 0,5384 |
| NanoClave vs. Smartsite | 0,6220 | -2,383 to 3,627 | No | ns | 0,9999 |
| NanoClave vs. Bionector | 1,352 | -1,653 to 4,357 | No | ns | 0,9023 |
| NanoClave vs. Vadsite | 0,7883 | -2,217 to 3,794 | No | ns | 0,9986 |
| NanoClave vs. Autoflush | 0,1210 | -2,884 to 3,126 | No | ns | >0,9999 |
| NanoClave vs. Neutraclear | -1,425 | -4,430 to 1,581 | No | ns | 0,8680 |
| MicroClave vs. Didactic | -3,599 | -6,605 to -0,5940 | Yes | \*\* | 0,0094 |
| MicroClave vs. CareSite | 1,944 | -1,062 to 4,949 | No | ns | 0,5043 |
| MicroClave vs. Safeflow | 1,101 | -1,904 to 4,107 | No | ns | 0,9756 |
| MicroClave vs. Q-Syte | -4,340 | -7,346 to -1,335 | Yes | \*\* | 0,0010 |
| MicroClave vs. BD Max 0 | -1,241 | -4,247 to 1,764 | No | ns | 0,9431 |
| MicroClave vs. Smartsite | 1,279 | -1,726 to 4,285 | No | ns | 0,9307 |
| MicroClave vs. Bionector | 2,010 | -0,9956 to 5,015 | No | ns | 0,4552 |
| MicroClave vs. Vadsite | 1,446 | -1,560 to 4,451 | No | ns | 0,8569 |
| MicroClave vs. Autoflush | 0,7784 | -2,227 to 3,784 | No | ns | 0,9987 |
| MicroClave vs. Neutraclear | -0,7673 | -3,773 to 2,238 | No | ns | 0,9989 |
| Didactic vs. CareSite | 5,543 | 2,538 to 8,548 | Yes | \*\*\*\* | <0,0001 |
| Didactic vs. Safeflow | 4,701 | 1,695 to 7,706 | Yes | \*\*\* | 0,0003 |
| Didactic vs. Q-Syte | -0,7410 | -3,746 to 2,264 | No | ns | 0,9992 |
| Didactic vs. BD Max 0 | 2,358 | -0,6472 to 5,363 | No | ns | 0,2383 |
| Didactic vs. Smartsite | 4,879 | 1,873 to 7,884 | Yes | \*\*\* | 0,0002 |
| Didactic vs. Bionector | 5,609 | 2,604 to 8,614 | Yes | \*\*\*\* | <0,0001 |
| Didactic vs. Vadsite | 5,045 | 2,040 to 8,050 | Yes | \*\*\* | 0,0001 |
| Didactic vs. Autoflush | 4,378 | 1,372 to 7,383 | Yes | \*\*\* | 0,0009 |
| Didactic vs. Neutraclear | 2,832 | -0,1732 to 5,837 | No | ns | 0,0786 |
| CareSite vs. Safeflow | -0,8421 | -3,847 to 2,163 | No | ns | 0,9974 |
| CareSite vs. Q-Syte | -6,284 | -9,289 to -3,279 | Yes | \*\*\*\* | <0,0001 |
| CareSite vs. BD Max 0 | -3,185 | -6,190 to -0,1796 | Yes | \* | 0,0307 |
| CareSite vs. Smartsite | -0,6641 | -3,669 to 2,341 | No | ns | 0,9997 |
| CareSite vs. Bionector | 0,06607 | -2,939 to 3,071 | No | ns | >0,9999 |
| CareSite vs. Vadsite | -0,4978 | -3,503 to 2,507 | No | ns | >0,9999 |
| CareSite vs. Autoflush | -1,165 | -4,170 to 1,840 | No | ns | 0,9632 |
| CareSite vs. Neutraclear | -2,711 | -5,716 to 0,2944 | No | ns | 0,1065 |
| Safeflow vs. Q-Syte | -5,442 | -8,447 to -2,436 | Yes | \*\*\*\* | <0,0001 |
| Safeflow vs. BD Max 0 | -2,343 | -5,348 to 0,6626 | No | ns | 0,2460 |
| Safeflow vs. Smartsite | 0,1780 | -2,827 to 3,183 | No | ns | >0,9999 |
| Safeflow vs. Bionector | 0,9082 | -2,097 to 3,913 | No | ns | 0,9949 |
| Safeflow vs. Vadsite | 0,3443 | -2,661 to 3,350 | No | ns | >0,9999 |
| Safeflow vs. Autoflush | -0,3230 | -3,328 to 2,682 | No | ns | >0,9999 |
| Safeflow vs. Neutraclear | -1,869 | -4,874 to 1,137 | No | ns | 0,5615 |
| Q-Syte vs. BD Max 0 | 3,099 | 0,09376 to 6,104 | Yes | \* | 0,0388 |
| Q-Syte vs. Smartsite | 5,620 | 2,614 to 8,625 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Bionector | 6,350 | 3,345 to 9,355 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Vadsite | 5,786 | 2,781 to 8,791 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Autoflush | 5,119 | 2,113 to 8,124 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Neutraclear | 3,573 | 0,5678 to 6,578 | Yes | \* | 0,0101 |
| BD Max 0 vs. Smartsite | 2,521 | -0,4846 to 5,526 | No | ns | 0,1671 |
| BD Max 0 vs. Bionector | 3,251 | 0,2456 to 6,256 | Yes | \* | 0,0255 |
| BD Max 0 vs. Vadsite | 2,687 | -0,3182 to 5,692 | No | ns | 0,1129 |
| BD Max 0 vs. Autoflush | 2,020 | -0,9856 to 5,025 | No | ns | 0,4479 |
| BD Max 0 vs. Neutraclear | 0,4740 | -2,531 to 3,479 | No | ns | >0,9999 |
| Smartsite vs. Bionector | 0,7302 | -2,275 to 3,735 | No | ns | 0,9993 |
| Smartsite vs. Vadsite | 0,1663 | -2,839 to 3,172 | No | ns | >0,9999 |
| Smartsite vs. Autoflush | -0,5010 | -3,506 to 2,504 | No | ns | >0,9999 |
| Smartsite vs. Neutraclear | -2,047 | -5,052 to 0,9586 | No | ns | 0,4285 |
| Bionector vs. Vadsite | -0,5639 | -3,569 to 2,441 | No | ns | >0,9999 |
| Bionector vs. Autoflush | -1,231 | -4,236 to 1,774 | No | ns | 0,9461 |
| Bionector vs. Neutraclear | -2,777 | -5,782 to 0,2284 | No | ns | 0,0904 |
| Vadsite vs. Autoflush | -0,6673 | -3,673 to 2,338 | No | ns | 0,9997 |
| Vadsite vs. Neutraclear | -2,213 | -5,218 to 0,7922 | No | ns | 0,3184 |
| Autoflush vs. Neutraclear | -1,546 | -4,551 to 1,460 | No | ns | 0,7978 |

**Table S3. Test of differences (ANOVA) with Tukey’s multiple comparison test performed after 7 day of experiment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tukey's multiple comparisons test | Mean Diff, | 95,00% CI of diff, | Significant? | Summary | Adjusted P Value |
| MaxPlus vs. NanoClave | 0,7081 | -5,299 to 6,715 | No | ns | >0,9999 |
| MaxPlus vs. MicroClave | 0,8437 | -5,163 to 6,850 | No | ns | >0,9999 |
| MaxPlus vs. Didactic | -7,695 | -13,70 to -1,689 | Yes | \*\* | 0,0045 |
| MaxPlus vs. CareSite | 7,069 | 1,062 to 13,08 | Yes | \* | 0,0112 |
| MaxPlus vs. Safeflow | 1,048 | -4,959 to 7,055 | No | ns | >0,9999 |
| MaxPlus vs. Q-Syte  | -19,56 | -25,57 to -13,56 | Yes | \*\*\*\* | <0,0001 |
| MaxPlus vs. BD Max 0 | -0,7843 | -6,791 to 5,222 | No | ns | >0,9999 |
| MaxPlus vs. Smartsite | -1,491 | -7,498 to 4,516 | No | ns | 0,9992 |
| MaxPlus vs. Bionector | 5,413 | -0,5936 to 11,42 | No | ns | 0,1072 |
| MaxPlus vs. Vadsite | 1,910 | -4,097 to 7,917 | No | ns | 0,9921 |
| MaxPlus vs. Autoflush | 5,516 | -0,4903 to 11,52 | No | ns | 0,0943 |
| MaxPlus vs. Neutraclear | -6,865 | -12,87 to -0,8586 | Yes | \* | 0,0151 |
| NanoClave vs. MicroClave | 0,1357 | -5,871 to 6,142 | No | ns | >0,9999 |
| NanoClave vs. Didactic | -8,403 | -14,41 to -2,397 | Yes | \*\* | 0,0015 |
| NanoClave vs. CareSite | 6,361 | 0,3543 to 12,37 | Yes | \* | 0,0309 |
| NanoClave vs. Safeflow | 0,3400 | -5,667 to 6,347 | No | ns | >0,9999 |
| NanoClave vs. Q-Syte  | -20,27 | -26,28 to -14,27 | Yes | \*\*\*\* | <0,0001 |
| NanoClave vs. BD Max 0 | -1,492 | -7,499 to 4,514 | No | ns | 0,9992 |
| NanoClave vs. Smartsite | -2,199 | -8,206 to 3,808 | No | ns | 0,9758 |
| NanoClave vs. Bionector | 4,705 | -1,302 to 10,71 | No | ns | 0,2403 |
| NanoClave vs. Vadsite | 1,202 | -4,805 to 7,209 | No | ns | >0,9999 |
| NanoClave vs. Autoflush | 4,808 | -1,198 to 10,82 | No | ns | 0,2154 |
| NanoClave vs. Neutraclear | -7,573 | -13,58 to -1,567 | Yes | \*\* | 0,0053 |
| MicroClave vs. Didactic | -8,539 | -14,55 to -2,532 | Yes | \*\* | 0,0012 |
| MicroClave vs. CareSite | 6,225 | 0,2186 to 12,23 | Yes | \* | 0,0372 |
| MicroClave vs. Safeflow | 0,2043 | -5,802 to 6,211 | No | ns | >0,9999 |
| MicroClave vs. Q-Syte  | -20,41 | -26,41 to -14,40 | Yes | \*\*\*\* | <0,0001 |
| MicroClave vs. BD Max 0 | -1,628 | -7,635 to 4,379 | No | ns | 0,9981 |
| MicroClave vs. Smartsite | -2,335 | -8,341 to 3,672 | No | ns | 0,9625 |
| MicroClave vs. Bionector | 4,569 | -1,437 to 10,58 | No | ns | 0,2761 |
| MicroClave vs. Vadsite | 1,066 | -4,940 to 7,073 | No | ns | >0,9999 |
| MicroClave vs. Autoflush | 4,673 | -1,334 to 10,68 | No | ns | 0,2485 |
| MicroClave vs. Neutraclear | -7,709 | -13,72 to -1,702 | Yes | \*\* | 0,0044 |
| Didactic vs. CareSite | 14,76 | 8,758 to 20,77 | Yes | \*\*\*\* | <0,0001 |
| Didactic vs. Safeflow | 8,743 | 2,737 to 14,75 | Yes | \*\*\* | 0,0009 |
| Didactic vs. Q-Syte  | -11,87 | -17,88 to -5,862 | Yes | \*\*\*\* | <0,0001 |
| Didactic vs. BD Max 0 | 6,911 | 0,9043 to 12,92 | Yes | \* | 0,0141 |
| Didactic vs. Smartsite | 6,204 | 0,1976 to 12,21 | Yes | \* | 0,0383 |
| Didactic vs. Bionector | 13,11 | 7,102 to 19,12 | Yes | \*\*\*\* | <0,0001 |
| Didactic vs. Vadsite | 9,605 | 3,599 to 15,61 | Yes | \*\*\* | 0,0002 |
| Didactic vs. Autoflush | 13,21 | 7,205 to 19,22 | Yes | \*\*\*\* | <0,0001 |
| Didactic vs. Neutraclear | 0,8300 | -5,177 to 6,837 | No | ns | >0,9999 |
| CareSite vs. Safeflow | -6,021 | -12,03 to -0,01430 | Yes | \* | 0,0491 |
| CareSite vs. Q-Syte  | -26,63 | -32,64 to -20,63 | Yes | \*\*\*\* | <0,0001 |
| CareSite vs. BD Max 0 | -7,853 | -13,86 to -1,847 | Yes | \*\* | 0,0035 |
| CareSite vs. Smartsite | -8,560 | -14,57 to -2,553 | Yes | \*\* | 0,0012 |
| CareSite vs. Bionector | -1,656 | -7,663 to 4,351 | No | ns | 0,9977 |
| CareSite vs. Vadsite | -5,159 | -11,17 to 0,8477 | No | ns | 0,1453 |
| CareSite vs. Autoflush | -1,553 | -7,559 to 4,454 | No | ns | 0,9988 |
| CareSite vs. Neutraclear | -13,93 | -19,94 to -7,928 | Yes | \*\*\*\* | <0,0001 |
| Safeflow vs. Q-Syte  | -20,61 | -26,62 to -14,61 | Yes | \*\*\*\* | <0,0001 |
| Safeflow vs. BD Max 0 | -1,832 | -7,839 to 4,174 | No | ns | 0,9945 |
| Safeflow vs. Smartsite | -2,539 | -8,546 to 3,468 | No | ns | 0,9338 |
| Safeflow vs. Bionector | 4,365 | -1,642 to 10,37 | No | ns | 0,3364 |
| Safeflow vs. Vadsite | 0,8620 | -5,145 to 6,869 | No | ns | >0,9999 |
| Safeflow vs. Autoflush | 4,468 | -1,538 to 10,48 | No | ns | 0,3049 |
| Safeflow vs. Neutraclear | -7,913 | -13,92 to -1,907 | Yes | \*\* | 0,0032 |
| Q-Syte vs. BD Max 0 | 18,78 | 12,77 to 24,79 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Smartsite | 18,07 | 12,07 to 24,08 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Bionector | 24,98 | 18,97 to 30,98 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Vadsite | 21,47 | 15,47 to 27,48 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Autoflush | 25,08 | 19,07 to 31,09 | Yes | \*\*\*\* | <0,0001 |
| Q-Syte vs. Neutraclear | 12,70 | 6,692 to 18,71 | Yes | \*\*\*\* | <0,0001 |
| BD Max 0 vs. Smartsite | -0,7067 | -6,713 to 5,300 | No | ns | >0,9999 |
| BD Max 0 vs. Bionector | 6,197 | 0,1906 to 12,20 | Yes | \* | 0,0386 |
| BD Max 0 vs. Vadsite | 2,694 | -3,312 to 8,701 | No | ns | 0,9041 |
| BD Max 0 vs. Autoflush | 6,301 | 0,2940 to 12,31 | Yes | \* | 0,0335 |
| BD Max 0 vs. Neutraclear | -6,081 | -12,09 to -0,07430 | Yes | \* | 0,0453 |
| Smartsite vs. Bionector | 6,904 | 0,8973 to 12,91 | Yes | \* | 0,0143 |
| Smartsite vs. Vadsite | 3,401 | -2,606 to 9,408 | No | ns | 0,6892 |
| Smartsite vs. Autoflush | 7,007 | 1,001 to 13,01 | Yes | \* | 0,0123 |
| Smartsite vs. Neutraclear | -5,374 | -11,38 to 0,6324 | No | ns | 0,1124 |
| Bionector vs. Vadsite | -3,503 | -9,510 to 2,504 | No | ns | 0,6507 |
| Bionector vs. Autoflush | 0,1033 | -5,903 to 6,110 | No | ns | >0,9999 |
| Bionector vs. Neutraclear | -12,28 | -18,29 to -6,272 | Yes | \*\*\*\* | <0,0001 |
| Vadsite vs. Autoflush | 3,606 | -2,400 to 9,613 | No | ns | 0,6111 |
| Vadsite vs. Neutraclear | -8,775 | -14,78 to -2,769 | Yes | \*\*\* | 0,0009 |
| Autoflush vs. Neutraclear | -12,38 | -18,39 to -6,375 | Yes | \*\*\*\* | <0,0001 |