�

Key:

|  |  |
| --- | --- |
| C1 | Concentration 1- 0.01g of antioxidant per 10.0g oil |
| C2 | Concentration 2- 0.05g of antioxidant per 10.0g oil |
| C3 | Concentration 3- 0.10g of antioxidant per 10.0g oil |
| P1 | Smell Tester 1 |
| P2 | Smell Tester 2 |

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�The numbers in the chart are based on a rubric from 0 to 4. 0 is no odor at all. 4 is a highly offensive, obviously rancid odor. Each chart is titled by T (time in days).

�

**Table 5 - All Concentrations at T=0**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=0 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vitamin C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ginger | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vitamin E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Garlic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Green tea extract | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rosemary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sesame seed oil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iron sulfate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Control | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

�

�**Table 6 - All Concentrations at T=1**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=1 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 0 | 0 | 0 | 0 | 0.25 | 0.25 | 0 | 0 | 0.25 |
| Vitamin C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ginger | 0 | 0 | 0 | 0 | 0.25 | 0.25 | 0 | 0 | 0.25 |
| Vitamin E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Garlic | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| Green tea extract | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rosemary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sesame seed oil | 0 | 0 | 0 | 0 | 0.25 | 0.25 | 0 | 0 | 0.25 |
| Iron sulfate | 0 | 0.5 | 0 | 0.25 | 1 | 1 | 0 | 0.375 | 1 |
| Control | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

�

**Table 7 - All Concentrations at T=2**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=2 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 0.5 | 0.5 | 0.5 | 0.5 | 0.375 | 0.375 | 0.5 | 0.5 | 0.375 |
| Vitamin C | 0.5 | 0.5 | 0.25 | 0 | 0.375 | 0.375 | 0.5 | 0.5 | 0.375 |
| Ginger | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.125 | 0.5 |
| Vitamin E | 0.5 | 0.5 | 0.5 | 0.5 | 0.375 | 0.375 | 0.5 | 0.5 | 0.375 |
| Garlic | 0.5 | 0.5 | 0.5 | 0.5 | 0.875 | 0.875 | 0.5 | 0.5 | 0.875 |
| Green tea extract | 0.25 | 0.25 | 0.5 | 0.5 | 0.75 | 0.75 | 0.25 | 0.5 | 0.75 |
| Rosemary | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Sesame seed oil | 0.5 | 0.5 | 0.75 | 1.0 | 0.5 | 0.5 | 0.5 | 0.875 | 0.5 |
| Iron sulfate | 0.5 | 0.5 | 1.0 | 0.75 | 1.375 | 1.375 | 0.5 | 0.875 | 1.375 |
| Control | X | X | 0.75 | 0.5 | X | X | X | 0.625 | X |

�

�**Table 8 - All Concentrations at T=3**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=3 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 0.75 | 0.5 | 0.75 | 1.0 | 0.75 | 0.75 | 0.625 | 0.875 | 0.75 |
| Vitamin C | 0.5 | 0.5 | 0 | 0.25 | 1.375 | 1.375 | 0.5 | 0.125 | 1.375 |
| Ginger | 0.75 | 0.5 | 0.25 | 0.5 | 1.125 | 1.125 | 0.625 | 0.375 | 1.125 |
| Vitamin E | 0.5 | 0.5 | 0.5 | 0.5 | 1.25 | 1.25 | 0.5 | 0.5 | 1.25 |
| Garlic | 0.5 | 0.5 | 0.5 | 1.0 | 1.125 | 1.125 | 0.5 | 0.75 | 1.125 |
| Green tea extract | 0.75 | 0.5 | 0.5 | 0.5 | 0.75 | 0.75 | 0.75 | 0.5 | 0.75 |
| Rosemary | 0.5 | 0.75 | 0.25 | 0 | 0.75 | 0.75 | 0.375 | 0.125 | 0.75 |
| Sesame seed oil | 0.5 | 0.5 | 0.5 | 0.5 | 1.25 | 1.25 | 0.5 | 0.5 | 1.25 |
| Iron sulfate | 0.75 | 0.75 | 0.75 | 2.5 | 1.875 | 1.875 | 0.75 | 1.625 | 1.875 |
| Control | X | X | 0.75 | 1.25 | X | X | X | 1.0 | X |

�

**Table 9 - All Concentrations at T=4**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=4 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 1.0 | 0.75 | 0.75 | 0.5 | 1.875 | 1.875 | 0.875 | 0.625 | 1.875 |
| Vitamin C | 1.0 | 0.5 | 0.5 | 1.0 | 2 | 2 | 0.75 | 0.75 | 2 |
| Ginger | 1.25 | 1.0 | 1.25 | 1.0 | 2 | 2 | 1.125 | 1.125 | 2 |
| Vitamin E | 1.25 | 1.0 | 1.25 | 1.0 | 2.125 | 2.125 | 1.125 | 1.125 | 2.125 |
| Garlic | 0.75 | 1.5 | 0.75 | 1.5 | 1.75 | 1.75 | 1.125 | 1.125 | 1.75 |
| Green tea extract | 0.75 | 1.0 | 0.75 | 1.5 | 1.75 | 1.75 | 0.875 | 1.125 | 1.75 |
| Rosemary | 0.5 | 1.0 | 0.25 | 1.5 | 1.25 | 1.25 | 0.75 | 0.875 | 1.25 |
| Sesame seed oil | 0.75 | 2.0 | 1.01 | 3.0 | 2 | 2 | 1.375 | 2.0 | 2 |
| Iron sulfate | 1.25 | 2.0 | 1.5 | 3.0 | 2.625 | 2.625 | 1.625 | 2.25 | 2.625 |
| Control | X | X | 1.5 | 2.0 | X | X | X | 1.75 | X |

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**Table 10 - All Concentrations at T=5**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=5 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 2.0 | 1.25 | 1.75 | 1.5 | 3.25 | 3.25 | 1.625 | 1.625 | 3.25 |
| Vitamin C | 2.0 | 1.5 | 1.75 | 1.5 | 2.625 | 2.625 | 1.75 | 1.625 | 2.625 |
| Ginger | 2.0 | 1.0 | 1.75 | 1.0 | 2.625 | 2.625 | 1.5 | 1.375 | 2.625 |
| Vitamin E | 2.0 | 1.5 | 1.75 | 1.5 | 3 | 3 | 1.75 | 1.625 | 3 |
| Garlic | 2.0 | 1.0 | 1.5 | 1.5 | 2.625 | 2.625 | 1.5 | 1.5 | 2.625 |
| Green tea extract | 1.75 | 2.0 | 1.5 | 2.0 | 3 | 3 | 1.875 | 1.75 | 3 |
| Rosemary | 1.5 | 1.0 | 1.5 | 1.5 | 2 | 2 | 1.25 | 1.5 | 2 |
| Sesame seed oil | 1.75 | 1.5 | 1.75 | 2.0 | 2.75 | 2.75 | 1.625 | 1.875 | 2.75 |
| Iron sulfate | 2.25 | 2.75 | 2.25 | 3.25 | 3.625 | 3.625 | 2.5 | 2.75 | 3.625 |
| Control | X | X | 2.5 | 2.75 | X | X | X | 2.5 | X |

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**Table 11 - Concentrations 1 and 2 at T=6**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=6 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 3.5 | 3.5 | 3.75 | 3.75 | X | X | 3.5 | 3.75 | X |
| Vitamin C | 3.25 | 3.25 | 3.25 | 3.25 | X | X | 3.25 | 3.25 | X |
| Ginger | 3.5 | 3.5 | 3.5 | 3.5 | X | X | 3.5 | 3.5 | X |
| Vitamin E | 3.25 | 3.25 | 3.0 | 3.0 | X | X | 3.25 | 3.0 | X |
| Garlic | 3.5 | 3.5 | 3.75 | 3.75 | X | X | 3.5 | 3.75 | X |
| Green tea extract | 3.0 | 3.0 | 4.0 | 4.0 | X | X | 3.0 | 4.0 | X |
| Rosemary | 2.25 | 2.25 | 2.25 | 2.25 | X | X | 2.25 | 2.25 | X |
| Sesame seed oil | 3.25 | 3.25 | 3.25 | 3.25 | X | X | 3.25 | 3.25 | X |
| Iron sulfate | 4.0 | 4.0 | 4.0 | 4.0 | X | X | 4.0 | 4.0 | X |
| Control | X | X | 4.0 | 4.0 | X | X | X | 4.0 | X |

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**Table 12 - Concentrations 1 and 2 at T=7**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| � | � | � | � | T=7 | � | � | � | � | � |
| Antioxidant | C1/P1 | C1/P2 | C2/P1 | C2/P2 | C3/P1 | C3/P2 | C1 average | C2 average | C3 average |
| Vitamin A | 3.75 | 3.75 | 3.75 | 4 | X | X | 3.75 | 3.875 | X |
| Vitamin C | 3.75 | 4 | 3 | 3.5 | X | X | 3.875 | 3.25 | X |
| Ginger | 3.25 | 4 | 3.25 | 3.5 | X | X | 3.625 | 3.375 | X |
| Vitamin E | 4 | 3.75 | 3.75 | 3.75 | X | X | 3.875 | 3.75 | X |
| Garlic | 4 | 4 | 4 | 3.75 | X | X | 4 | 3.875 | X |
| Green tea extract | 3.75 | 4 | 4 | 4 | X | X | 3.875 | 4 | X |
| Rosemary | 3 | 3 | 3.25 | 2.5 | X | X | 3 | 2.875 | X |
| Sesame seed oil | 3.5 | 3.5 | 3.5 | 4 | X | X | 3.5 | 3.75 | X |
| Iron sulfate | 4 | 4 | 4 | 4 | X | X | 4 | 4 | X |
| Control | X | X | 4 | 4 | X | X | X | 4 | X |

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\* X indicates unavailable data.

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