**Weight Loss(%) Calculation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | | Day 0 | Day2 | Day4 | Day6 |
| Evaporative Cooler  ( T1) | Top layer  (L1) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| Avg.Wt. (T1L1) |  |  |  |  |
| Middle Layer(L2) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| Avg.Wt.(T1L2) |  |  |  |  |
| Bottom Layer(L3) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| Avg.Wt.(T1L3) |  |  |  |  |
|  |  | Avg. Weight | T1S0= | T1S2= | T1S4= | T1S6= |
|  |  | Avg. Wt. Loss(%) |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | Day2 | Day4 | Day6 |
| Open Bamboo(T2) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| S4 |  |  |  |  |
| S5 |  |  |  |  |
| S6 |  |  |  |  |
| S7 |  |  |  |  |
| S8 |  |  |  |  |
| S9 |  |  |  |  |
|  | Avg. Wt. | T2S0= | T2S2= | T2S4= | T2S6= |
|  | Avg. Wt. Loss(%) |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | Day2 | Day4 | Day6 |
| Refrigerator(T3) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| S4 |  |  |  |  |
| S5 |  |  |  |  |
| S6 |  |  |  |  |
| S7 |  |  |  |  |
| S8 |  |  |  |  |
| S9 |  |  |  |  |
|  | Avg. Wt. | T3S0= | T3S2= | T3S4= | T3S6= |
|  | Avg.Wt. Loss |  |  |  |  |

**Color Measurement:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Evaporative Cooler(T1) |  |  | Day0 | | | Day2 | | | Day4 | | | Day6 | | | |
| Top layer  (L1) |  | L\* | a\* | b\* | L\* | a\* | b\* | L\* | a\* | b\* | L\* | a\* | b\* |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg.(L1) |  |  |  |  |  |  |  |  |  |  |  |  |
| ∆E |  | | |  | | |  | | |  | | | |
| Middle Layer(L2) | S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg.(L2) |  |  |  |  |  |  |  |  |  |  |  |  |
| ∆E |  | | |  | | |  | | |  | | | |
| Bottom Layer(L3) | S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg.(L3) |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | ∆E |  | | |  | | |  | | |  | | | |
|  | | Avg. ∆E | T1S0= | | | T1S2= | | | T1S4= | | | T1S6= | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Open Bamboo(T2) |  | Day0 | | | Day2 | | | Day4 | | | Day6 | | | |
|  | L\* | a\* | b\* | L\* | a\* | b\* | L\* | a\* | b\* | L\* | a\* | b\* |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg. |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg. ∆E | T1S0= | | | T1S2= | | | T1S4= | | | T1S6= | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Refrigerator  (T3) |  | Day0 | | | Day2 | | | Day4 | | | Day6 | | | |
| L\* | a\* | b\* | L\* | a\* | b\* | L\* | a\* | b\* | L\* | a\* | b\* |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg. |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg. ∆E | T3S0= | | | T3S2= | | | T3S4= | | | T3S6= | | | |

**Firmness Test(N)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | | Day 0 | Day2 | Day4 | Day6 |
| Evaporative Cooler  ( T1) | Top layer  (L1) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| Avg.Force(T1L1) |  |  |  |  |
| Middle Layer(L2) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| Avg.Force(T1L2) |  |  |  |  |
| Bottom Layer(L3) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| Avg.Force(T1L3) |  |  |  |  |
|  |  | Avg.Force | T1S0= | T1S2= | T1S4= | T1S6= |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | Day2 | Day4 | Day6 |
| Open Bamboo(T2) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| S4 |  |  |  |  |
| S5 |  |  |  |  |
| S6 |  |  |  |  |
| S7 |  |  |  |  |
| S8 |  |  |  |  |
| S9 |  |  |  |  |
|  | Avg. Force | T2S0= | T2S2= | T2S4= | T2S6= |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | Day2 | Day4 | Day6 |
| Refrigerator(T3) | S1 |  |  |  |  |
| S2 |  |  |  |  |
| S3 |  |  |  |  |
| S4 |  |  |  |  |
| S5 |  |  |  |  |
| S6 |  |  |  |  |
| S7 |  |  |  |  |
| S8 |  |  |  |  |
| S9 |  |  |  |  |
|  | Avg. Force | T3S0= | T3S2= | T3S4= | T3S6= |

**Total Soluble Solid(⸰Brix):**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day0 | | | Day2 | | | Day4 | | | Day6 | | |
| Evaporative Cooler  ( T1) |  | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref. Index | Tem | Brix  ⸰(%) | Ref. Index | Tem |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg.Brix  (T1L1) |  |  |  |  |  |  |  |  |  |  |  |  |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg.Brix  (T1L2) |  |  |  |  |  |  |  |  |  |  |  |  |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg.Brix  (T1L3) |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Brix value | T1S0= |  |  | T1S2= |  |  | T1S4= |  |  | T1S6= |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | | | Day2 | | | Day4 | | | Day6 | | |
| Open Bamboo(T2) |  | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Avg.Brix value | T2S0= |  |  | T2S2= |  |  | T2S4= |  |  | T2S6= |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | | | Day2 | | | Day4 | | | Day6 | | |
| Refrigerator(T3) |  | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem | Brix  ⸰(%) | Ref.  Index | Tem |
| S1 |  |  |  |  |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Avg.Brix value | T3S0= |  |  | T3S2= |  |  | T3S4= |  |  | T3S6= |  |  |

**pH Measurement:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | Day 0 | | Day2 | | Day4 | | Day6 | |
| Evaporative Cooler  ( T1) | Top layer  (L1) |  | pH | Temp | pH | Temp | pH | Temp | pH | Temp |
| S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| pH(T1L1) |  |  |  |  |  |  |  |  |
| Middle Layer(L2) | S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| pH (T1L2) |  |  |  |  |  |  |  |  |
| Bottom Layer(L3) | S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| pH (T1L3) |  |  |  |  |  |  |  |  |
|  |  | Avg.pH value | T1S0= |  | T1S2= |  | T1S4= |  | T1S6= |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | | Day2 | | Day4 | | Day6 | |
| Open Bamboo(T2) |  | pH | Temp | pH | Temp | pH | Temp | pH | Temp |
| S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |
|  | Avg.pH value | T1S0= |  | T1S2= |  | T1S4= |  | T1S6= |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | | Day2 | | Day4 | | Day6 | |
| Refrigerator(T3) | S1 | pH | Temp | pH | Temp | pH | Temp | pH | Temp |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |
|  | Avg.pH value | T1S0= |  | T1S2= |  | T1S4= |  | T1S6= |  |

**Tritable Acidity:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | Day 0 | | Day2 | | Day4 | | Day6 | |
| Evaporative Cooler  ( T1) | Top layer  (L1) |  | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH |
| S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Middle Layer(L2) | S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Bottom Layer(L3) | S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | Avg. | T1S0= | T1S0= |  | T1S2= |  | T1S4= |  | T1S6= |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | | Day2 | | Day4 | | Day6 | |
| Open Bamboo(T2) |  | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH |
| S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |
|  | Avg. | T1S0= | T1S0= |  | T1S2= |  | T1S4= |  | T1S6= |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Day 0 | | Day2 | | Day4 | | Day6 | |
| Refrigerator(T3) |  | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH | Wt. sample(ml) | vol. NaOH |
| S1 |  |  |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |  |  |
| S3 |  |  |  |  |  |  |  |  |
| S4 |  |  |  |  |  |  |  |  |
| S5 |  |  |  |  |  |  |  |  |
| S6 |  |  |  |  |  |  |  |  |
| S7 |  |  |  |  |  |  |  |  |
| S8 |  |  |  |  |  |  |  |  |
| S9 |  |  |  |  |  |  |  |  |
|  | Avg. | T1S0= | T1S0= |  | T1S2= |  | T1S4= |  | T1S6= |