**Tables and Figures**

**Table 1** **Optimized *Aloe vera* gel treated Sapota (*Manilkara zapota*)**

|  |  |  |
| --- | --- | --- |
| **Treatment No:** | **Ratio of water to Aloe vera** | **Duration in minutes** |
| ST1 | CONTROL | **-** |
| ST6 | 1:2 | 5 |
| ST7 | 1:2 | 7 |
| ST9 | 1:3 | 5 |
| ST10 | 1:3 | 7 |

**Fig. 1 Effect of aloe vera treatment on changes of weight loss % of Sapota stored at a temperature of 15**$\pm 2°C$

 **Weight loss was more in control Sapota while in the aloe treated ones it was controlled better on the 20th day of shelf life.**

**Fig. 2 Effect of aloe vera treatment on changes of of “L” – value of Sapota stored at a temperature of 15**$\pm 2°C$

**“L” – value was maintained better in aloe treated ones especially in ST6 and ST7 than that of the control Sapota**

**Fig. 3 Effect of aloe vera treatment on changes of of ‘a’ – value of Sapota stored at a temperature of 15**$\pm 2°C$

**Color change towards red (“a” ) was better controlled in the aloe treared Sapota while the control showing the peak value**

 **Fig. 4 Effect of aloe vera treatment on changes of ‘b’ – value of Sapota stored at a temperature of 15**$\pm 2°C$

**“b” – value was maintained better in aloe treated ones especially in ST6 and ST7 than that of the control Sapota**

**Fig.5 Effect of aloe vera treatment on changes of textural changes of Sapota stored at a temperature of 15**$\pm 2°C$

**Control Sapota lost its firmness by the 20th day of shelf life while the aloe trated ones were able to maintain as shown in the figure**

**Fig. 6 Effect of aloe vera treatment on changes of Total soluble solids of Sapota stored at a temperature of 15**$\pm 2°C$

**Total soluble solids tends to increase in both control and aloe treated ones but the treatments ST6 and ST7 were able to control this effect as shown in the figure.**

**Fig. 7 Effect of aloe vera treatment on changes of pH value of Sapota stored at a temperature of 15**$\pm 2°C$

**pH tends to increase in both control and aloe treated sapota but it was better maintained in ST7**

**Fig. 8 Effect of aloe vera treatment on changes of Titrable Acidity of Sapota stored at a temperature of 15**$\pm 2°C$

**Titrable acidity showed a decresing trend in both control and aloe treated sapota but it was better maintained in ST7 & ST9**

**Fig.9 Effect of aloe vera treatment on changes of Ascorbic Acid of Sapota stored at a temperature of 15**$\pm 2°C$

**Ascorbic acid showed a decresing trend in both control and aloe treated sapota but it was better maintained in ST7 & ST9**