

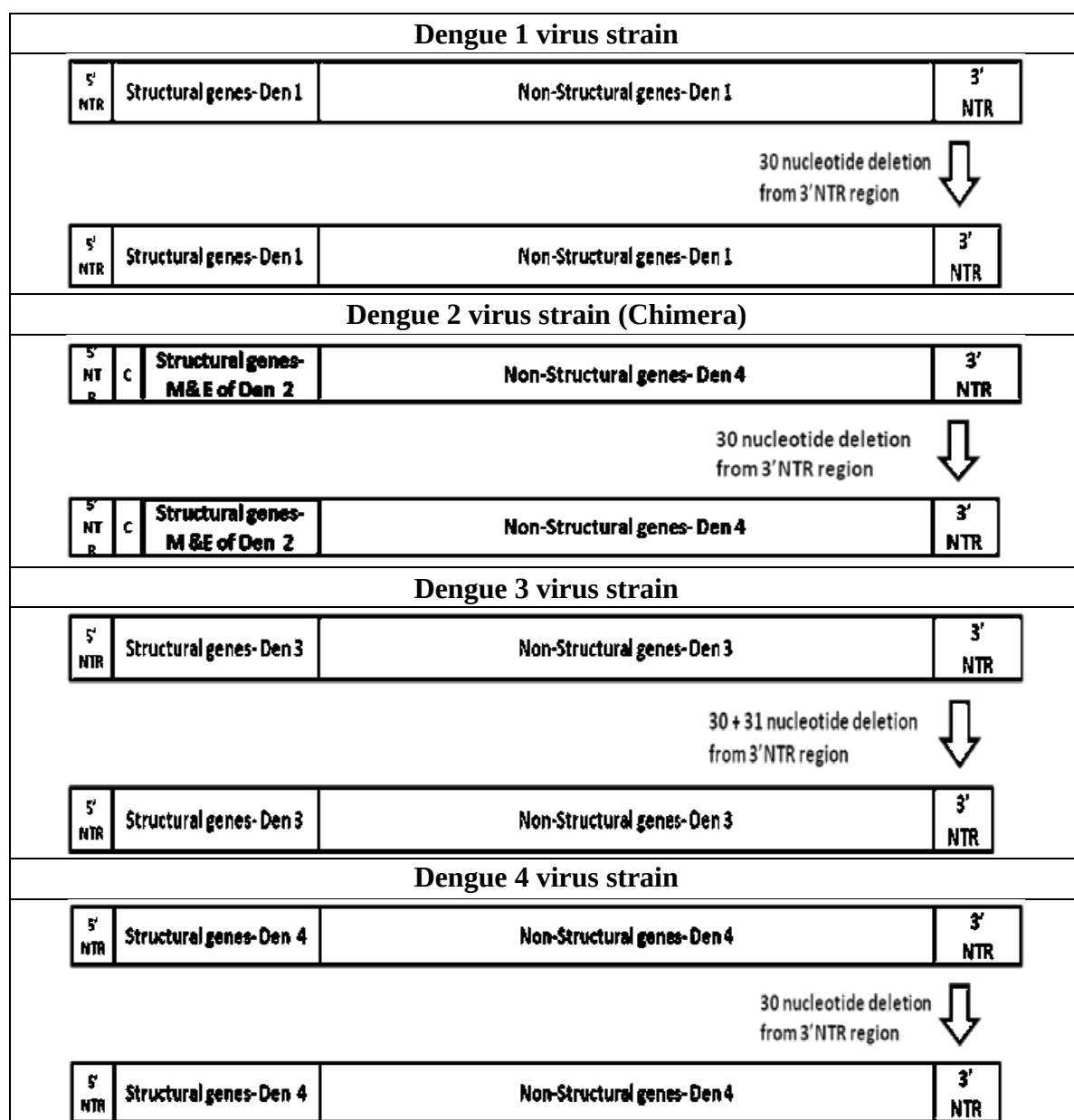


Figure 1: RNA sequence of dengue virus strains

Dengue virus virion structure

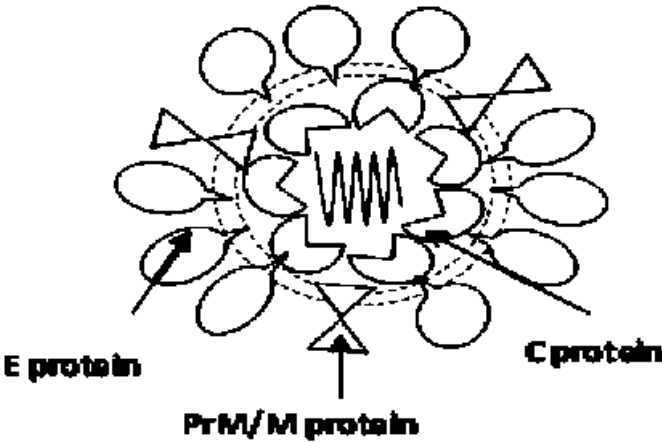
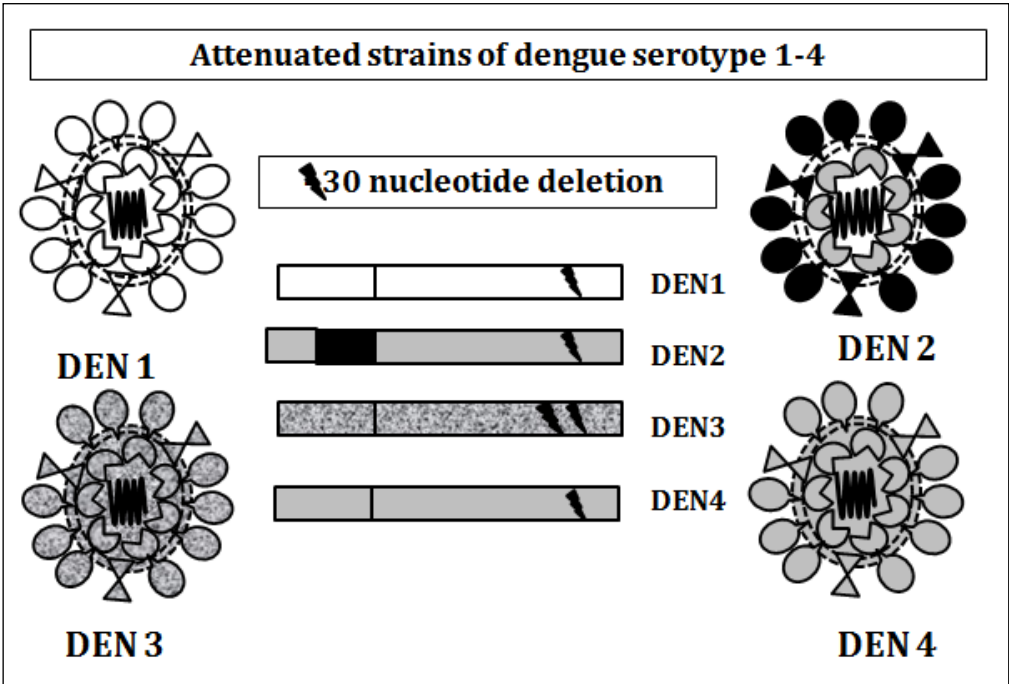
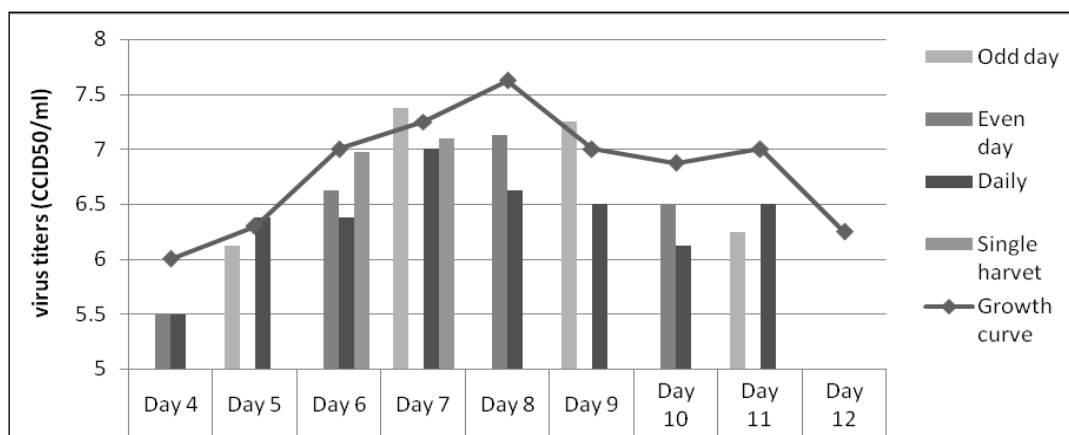
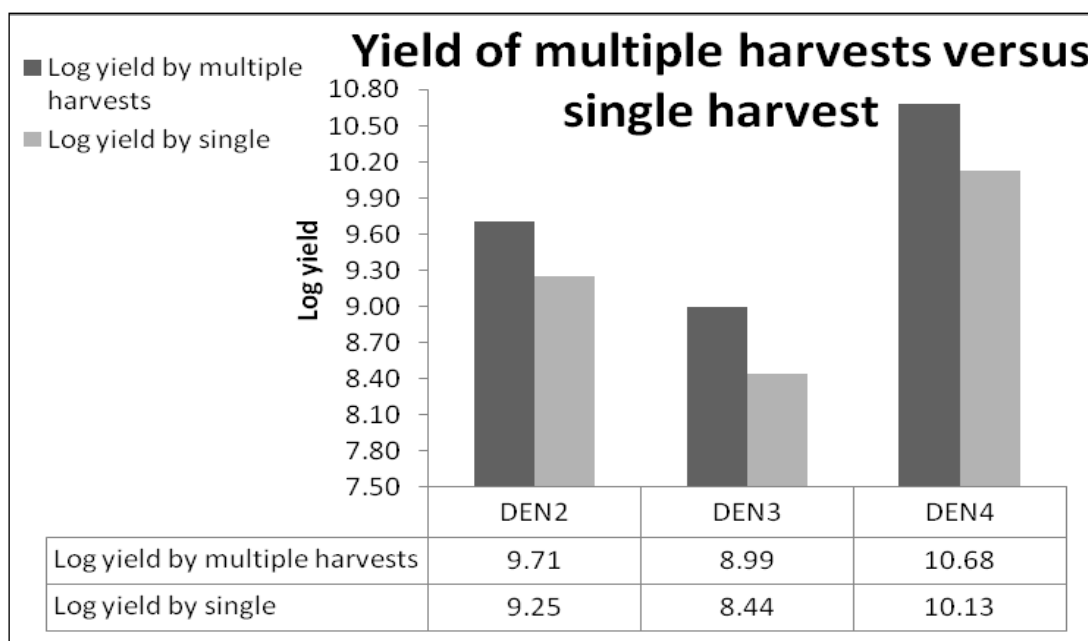


Figure 2: Dengue virus virion structure





**Figure 4: DEN 1 Virus Log Yield Titters (CCID₅₀/ml)
(Multiple Harvest vs. Single Harvest)**



**Figure 5: DEN 2, 3, 4 Virus Log Yield Titters (CCID₅₀/ml)
(Multiple Harvest vs. Single Harvest)**

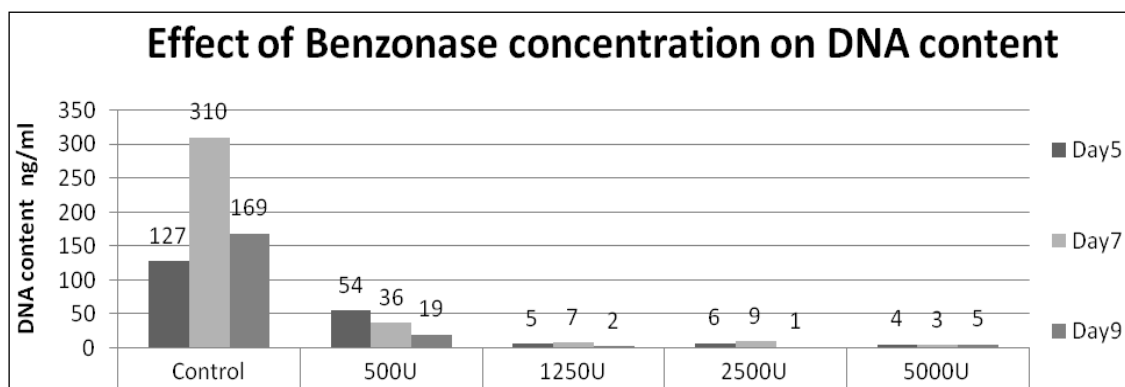


Figure 6: Effect of Benzonase concentration on DNA content

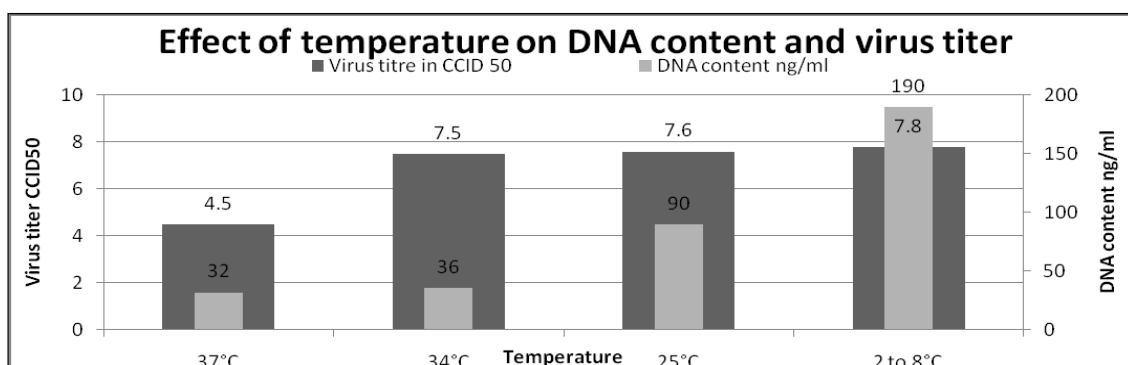


Figure 7: Effect of temperature on Cellular DNA content and virus titer

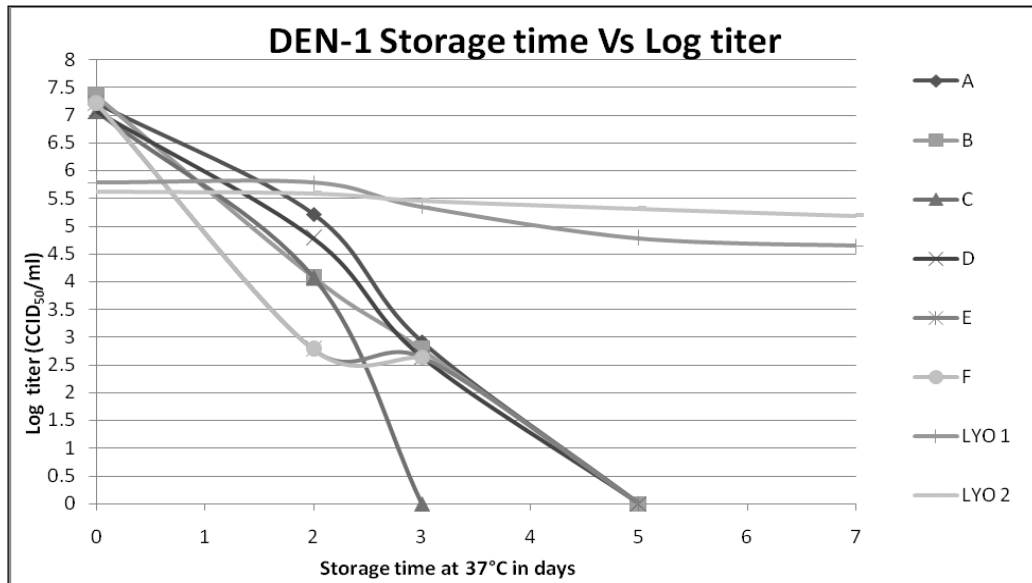


Figure 8: DEN-1 titer CCID₅₀/ml (Liquid vs. Lyophilized)

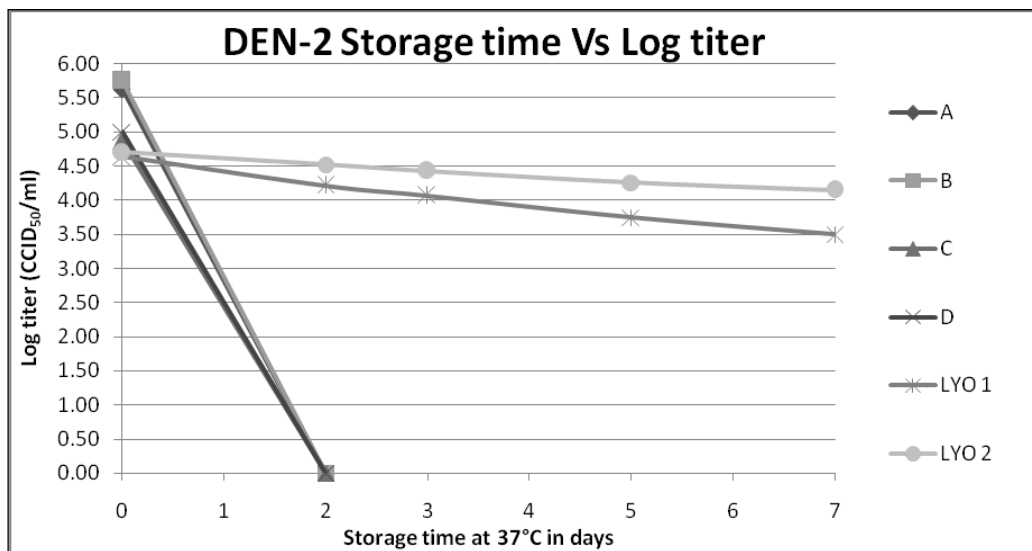


Figure 9: DEN 2 Titer CCID₅₀/ml (Liquid vs. Lyophilized)

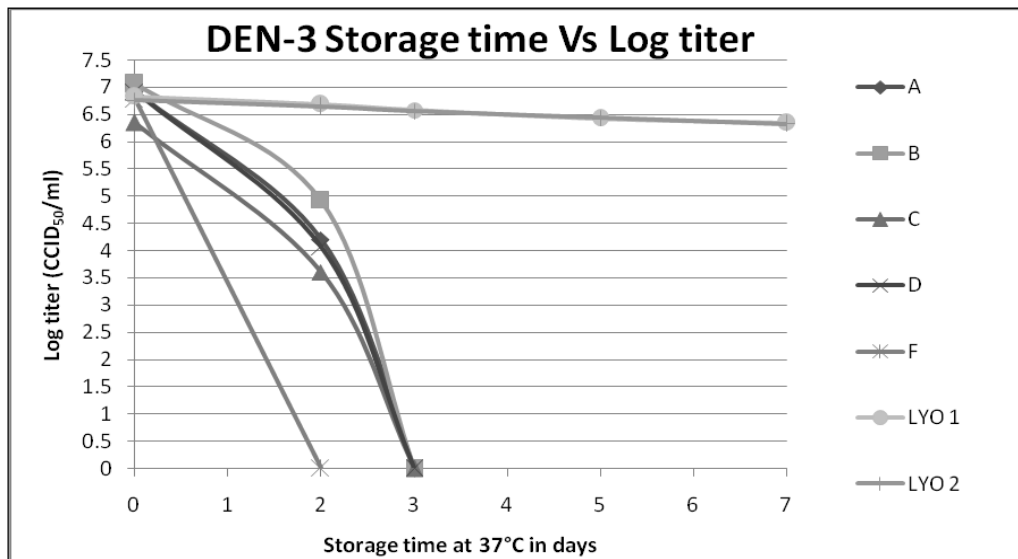


Figure 10: DEN 3 Titer CCID₅₀/ml (Liquid vs. Lyophilized)

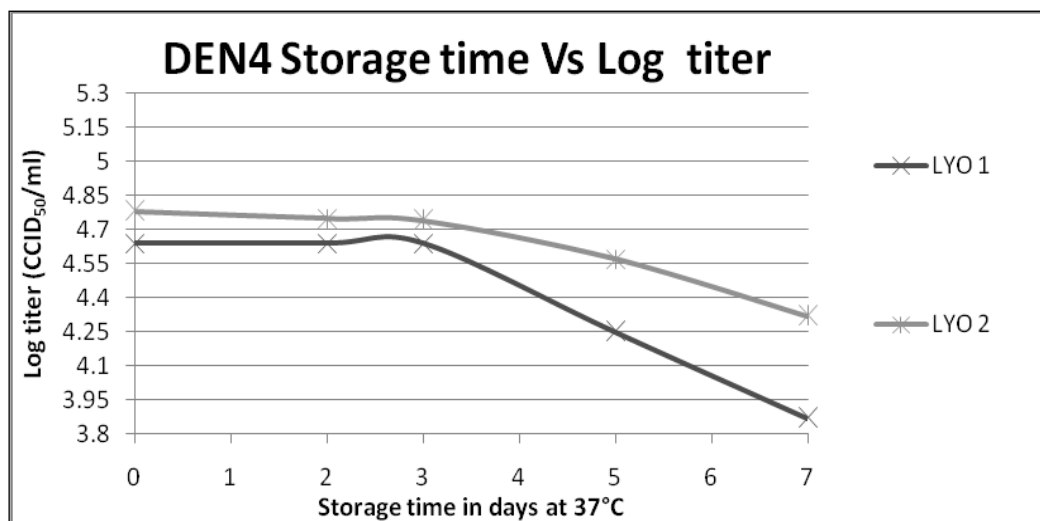


Figure 11: DEN 4 Titer CCID₅₀/ml (Lyophilized)

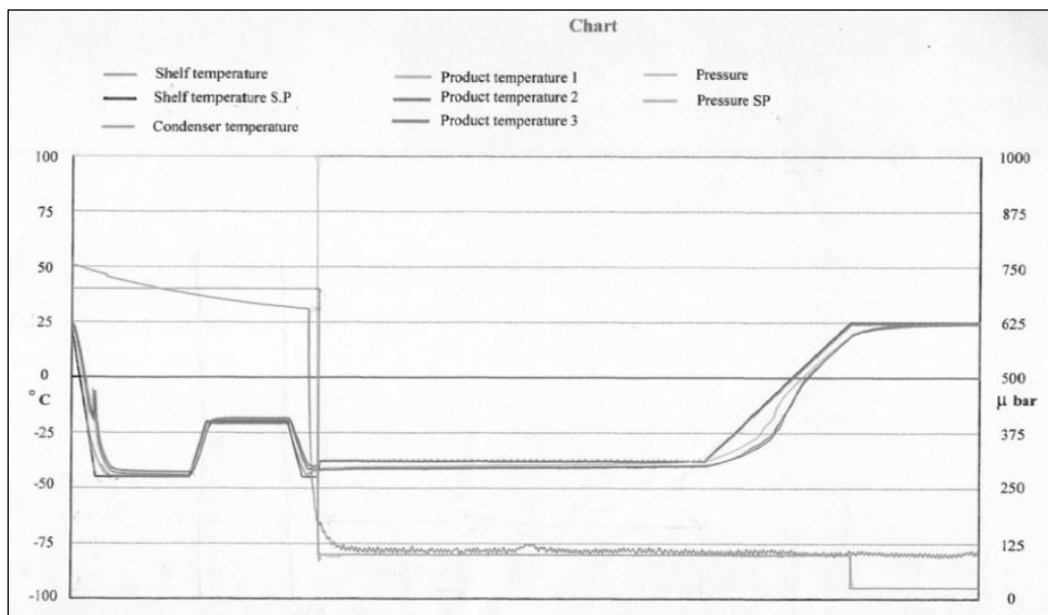


Figure 12: Lyophilization Cycle

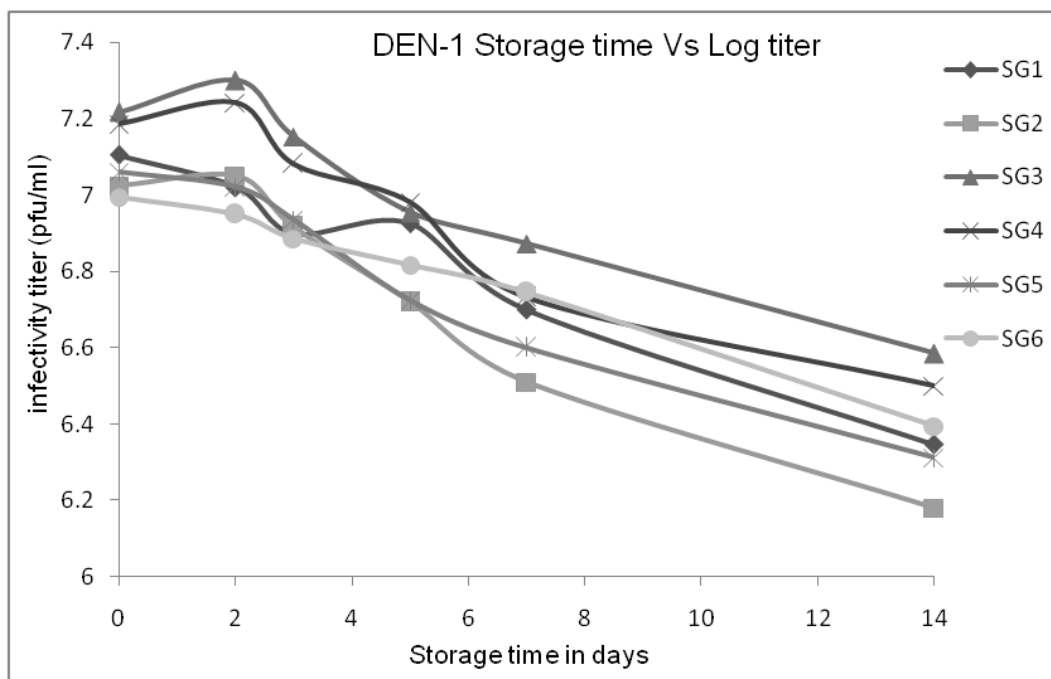


Figure 13: DEN 1 Titer Log₁₀ pfu/ml post lyophilization

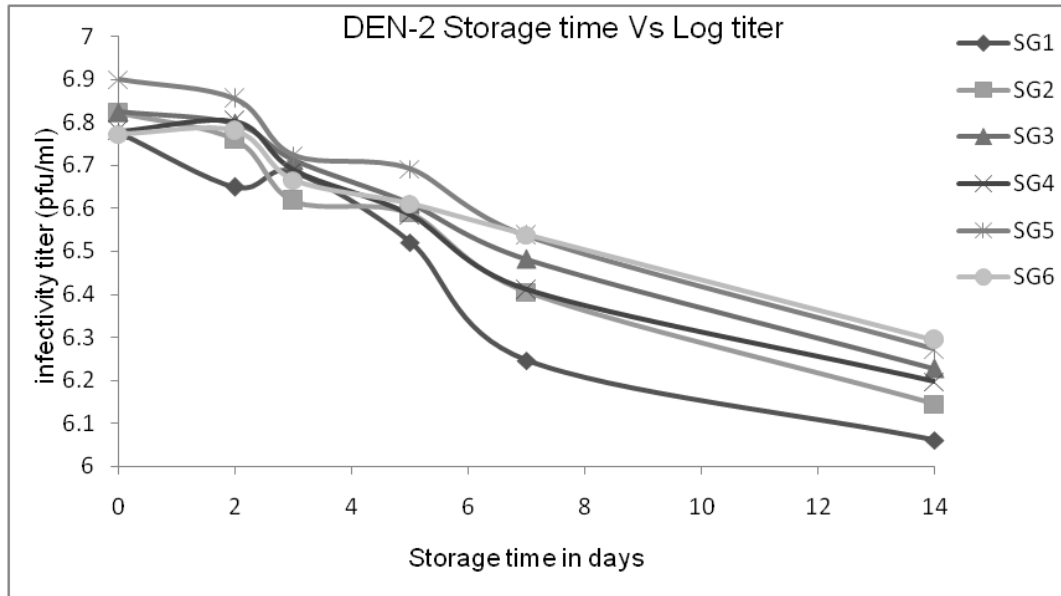


Figure 14: DEN-2 titer Log₁₀ pfu/ml post lyophilization

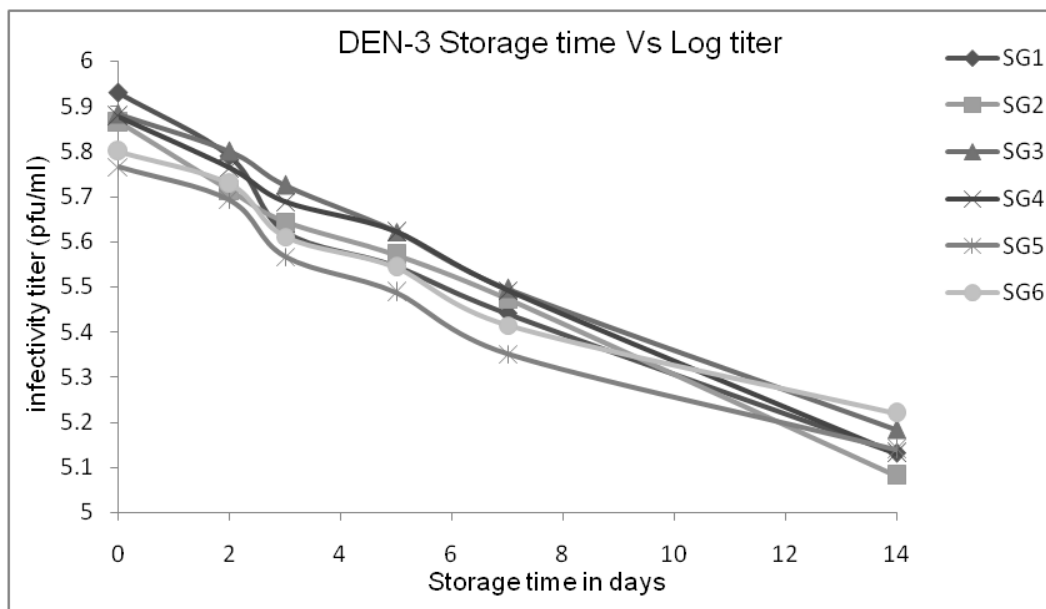


Figure 15: DEN-3 titer Log₁₀ pfu/ml post lyophilization

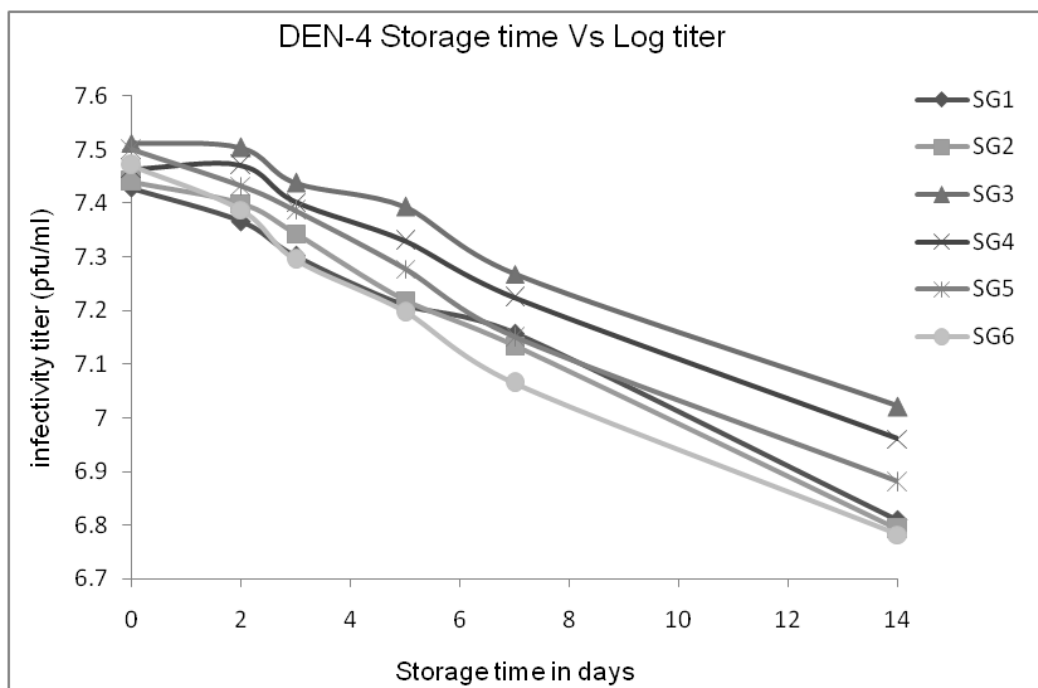


Figure 16: DEN-4 titer Log₁₀ pfu/ml post lyophilization

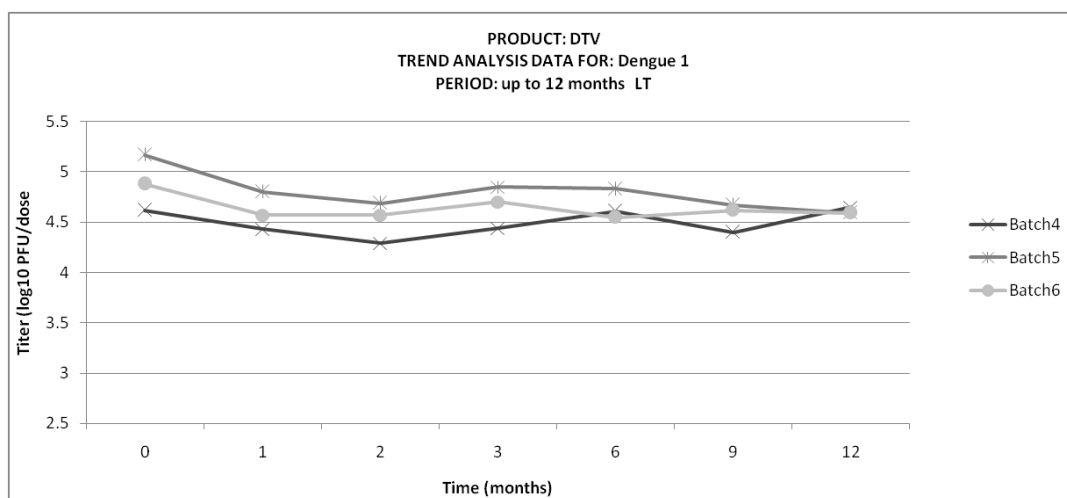


Figure 17A: DEN-1 titer Log₁₀ pfu/0.5 ml data post lyophilization at 2-8°C up to 12 months

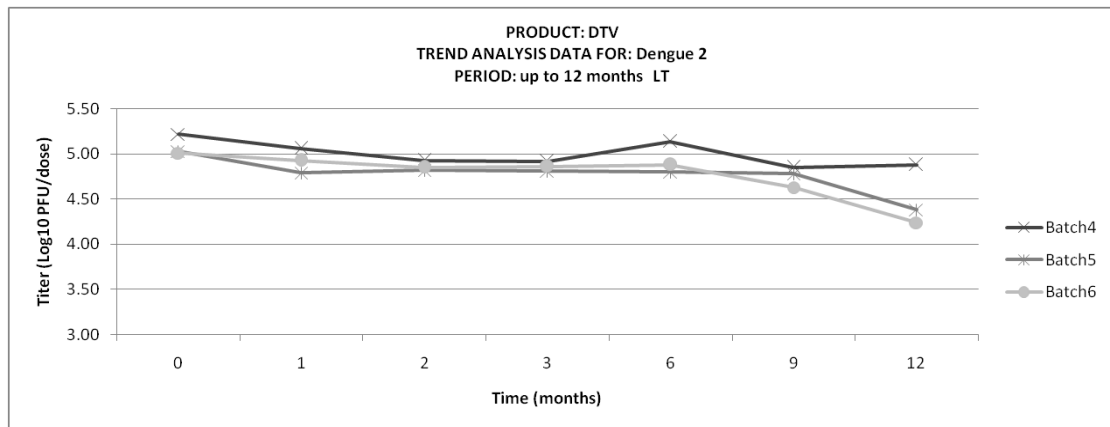


Figure 17B: DEN-2 titer Log_{10} pfu/0.5 ml data post lyophilization at 2-8°C up to 12 months

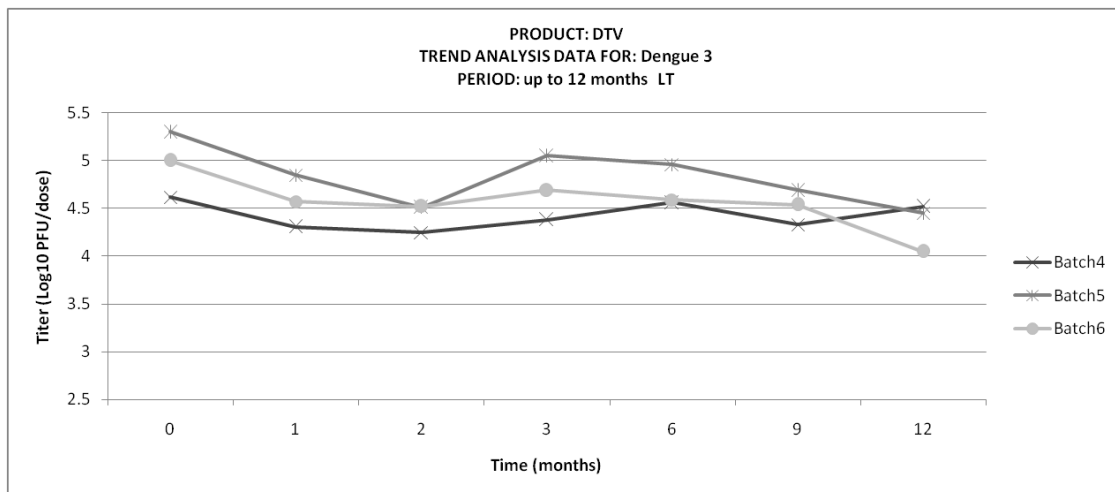


Figure 17C: DEN-3 titer Log_{10} pfu/0.5 ml data post lyophilization at 2-8°C up to 12 months

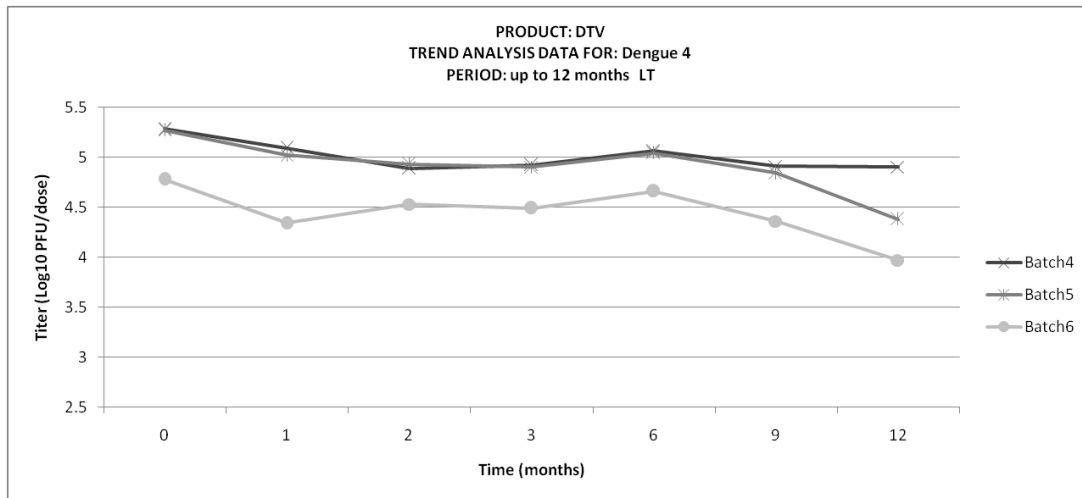


Figure 17D: DEN-4 titer Log₁₀ pfu/0.5 ml data post lyophilization at 2-8°C up to 12 months

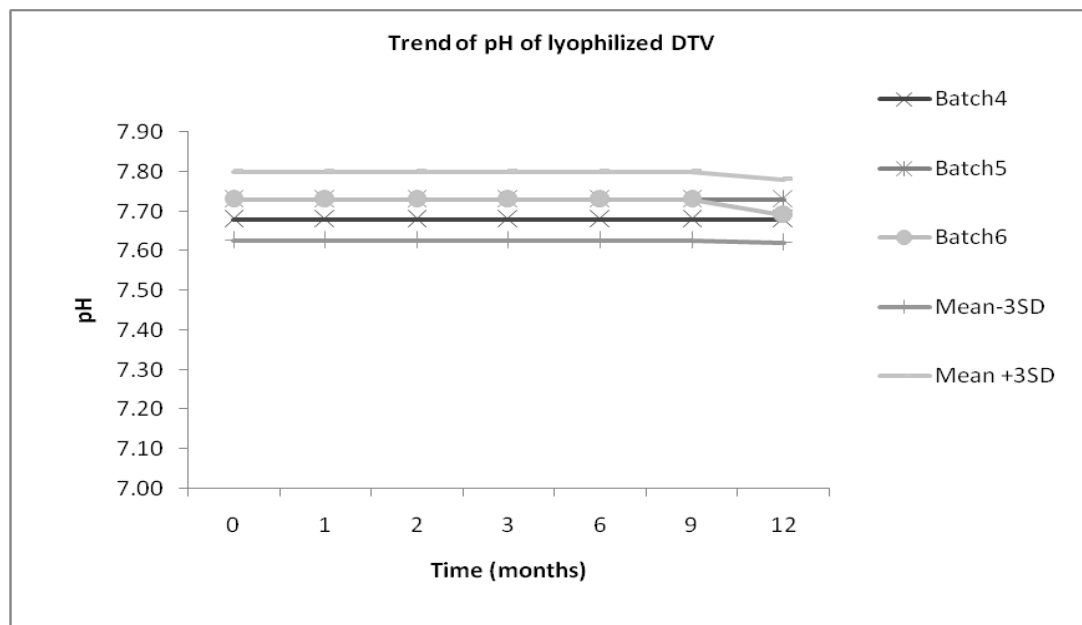


Figure 18: Dengue Tetravalent vaccine pH data post lyophilization at 2-8°C up to 12 months

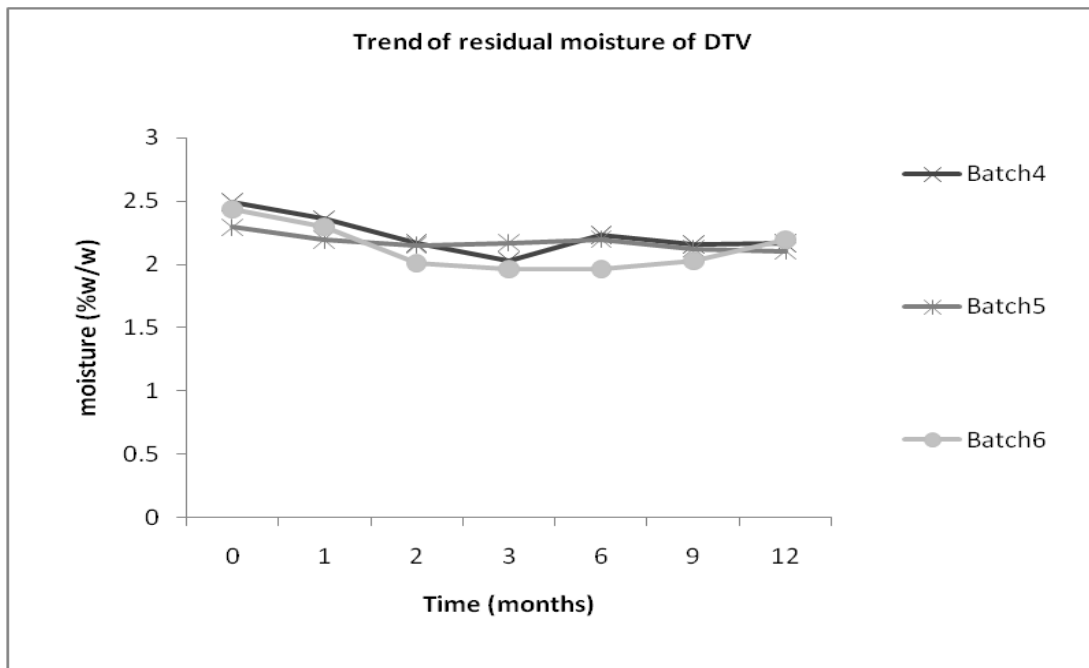


Figure 19: Dengue Tetraivalent vaccine Residual Moisture data post lyophilization at 2-8°C up to 12 months

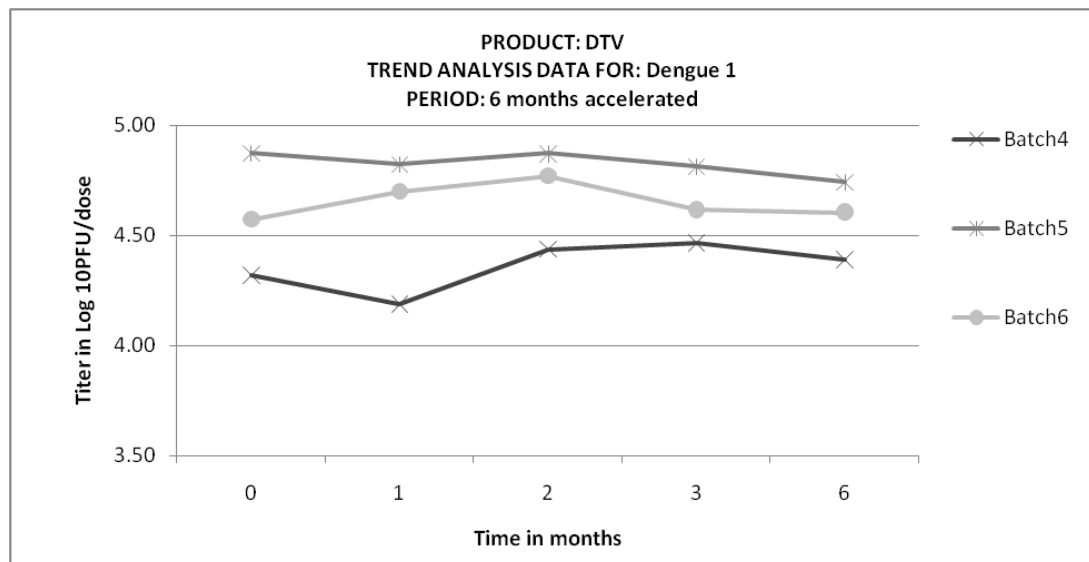


Figure 20A: DEN-1 titer Log₁₀ pfu/0.5 ml data post lyophilization at 25°C±2°C up to 6 months

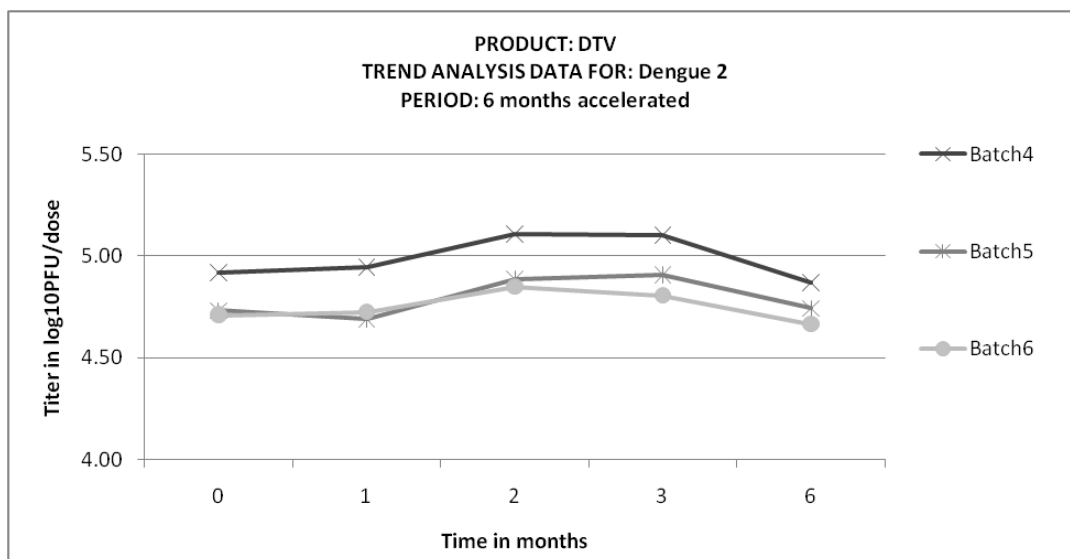


Figure 20B: DEN-2 titer Log₁₀ pfu/0.5 ml data post lyophilization at 25°C±2°C up to 6 months

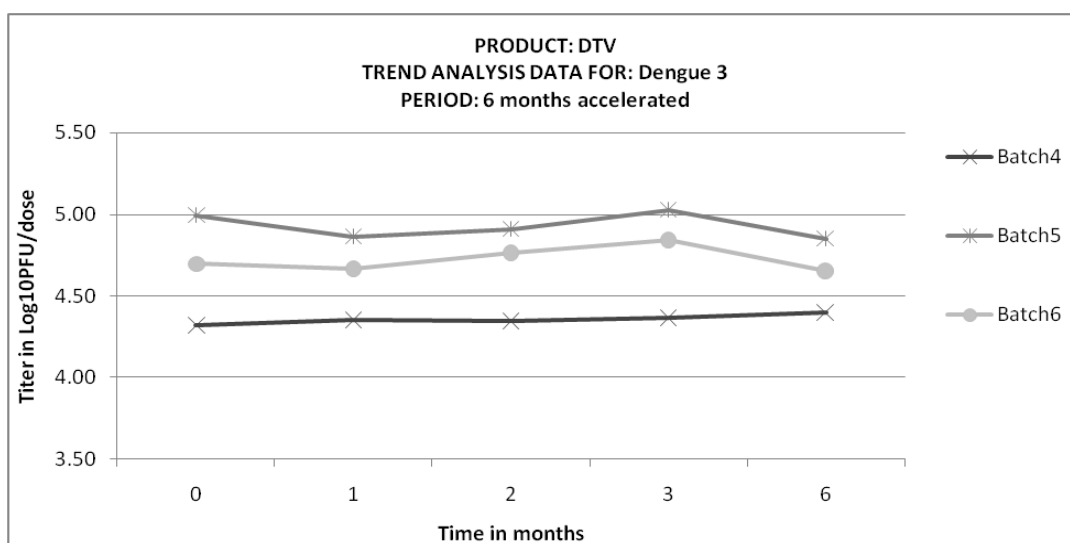


Figure 20C: DEN-3 titer Log₁₀ pfu/0.5 ml data post lyophilization at 25°C±2°C up to 6 months

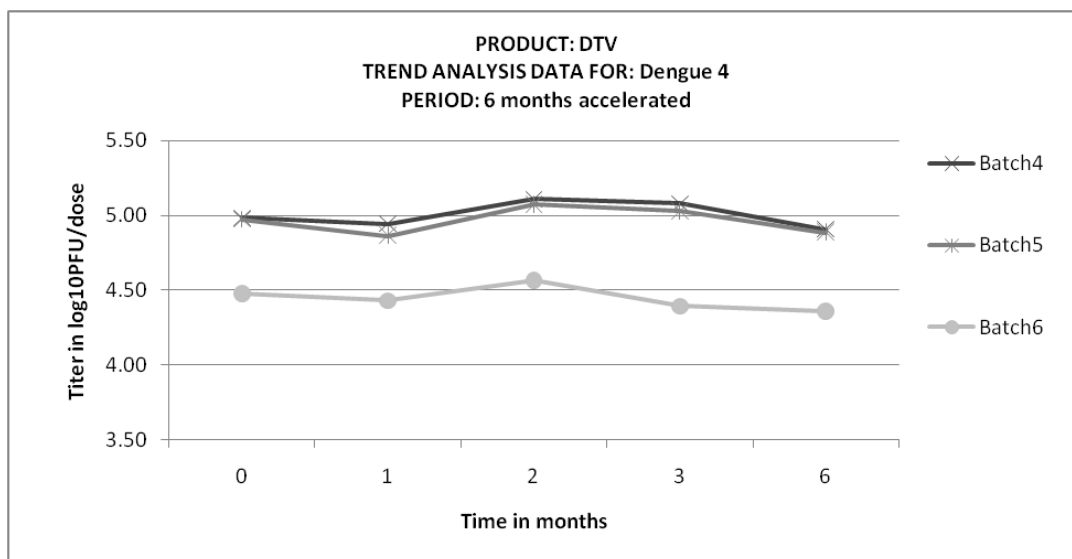


Figure 20D: DEN-4 titer Log₁₀ pfu/0.5 ml data post lyophilization at 25°C±2°C up to 6 months

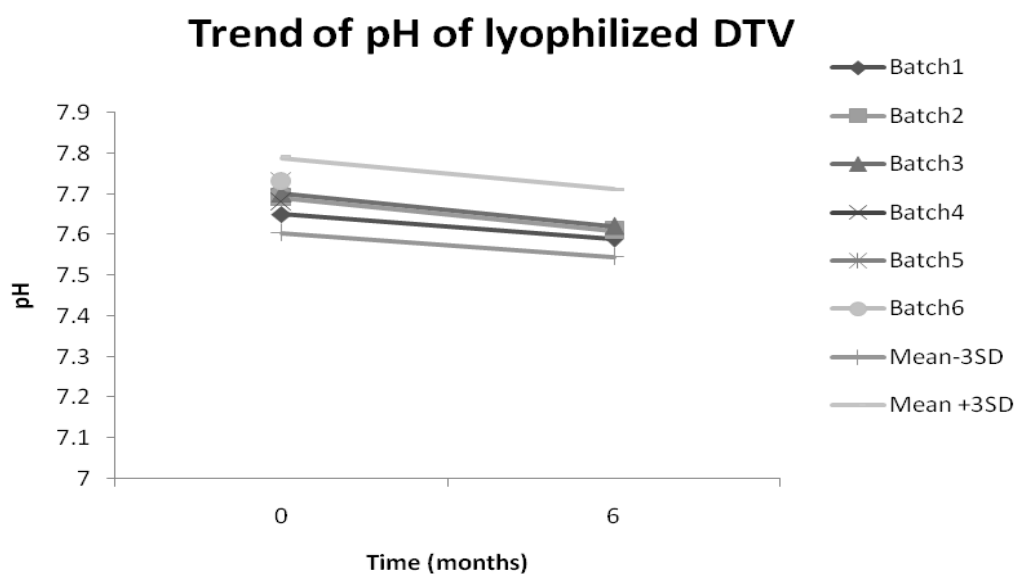


Figure 21: Dengue Tetraivalent vaccine pH data post lyophilization at 25°C±2°C up to 6 months

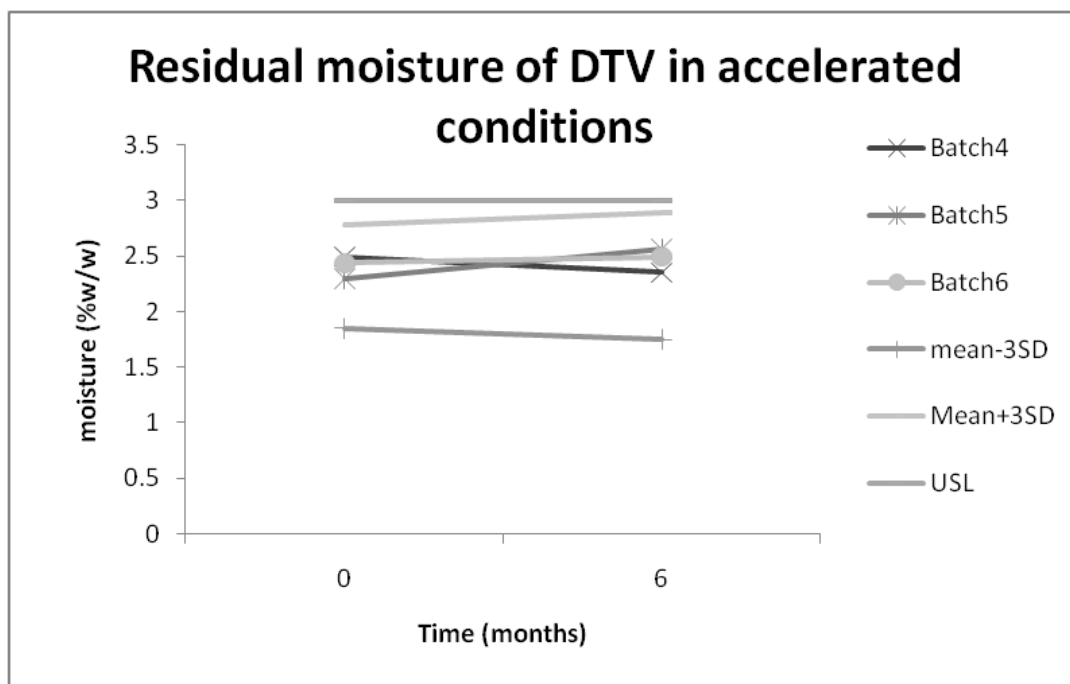


Figure 22: Dengue Tetraivalent vaccine Residual Moisture data post lyophilization at $25^{\circ}\text{C}\pm 2^{\circ}\text{C}$ up to 6 months

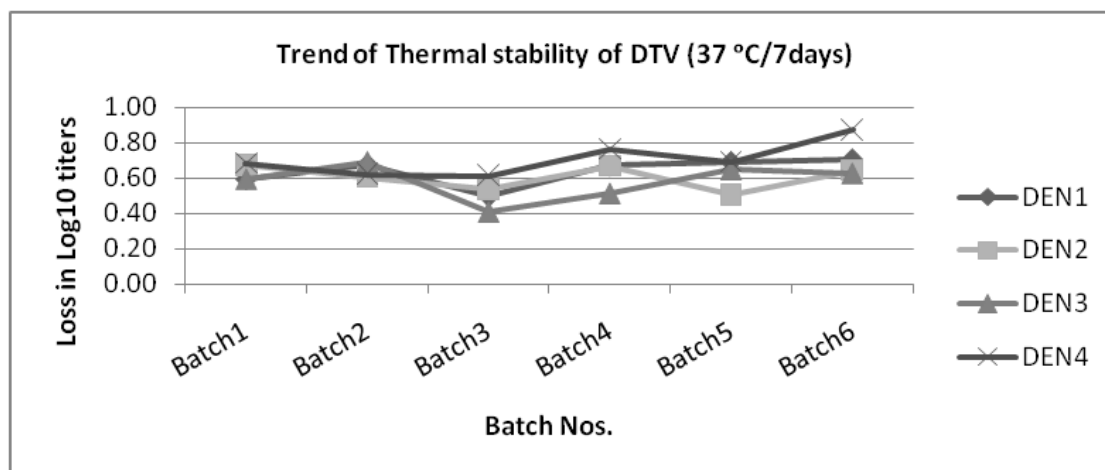


Figure 23: Dengue Tetraivalent Vaccine Stability data at $37^{\circ}\text{C}\pm 1^{\circ}\text{C}$ up to 7 days post lyophilization

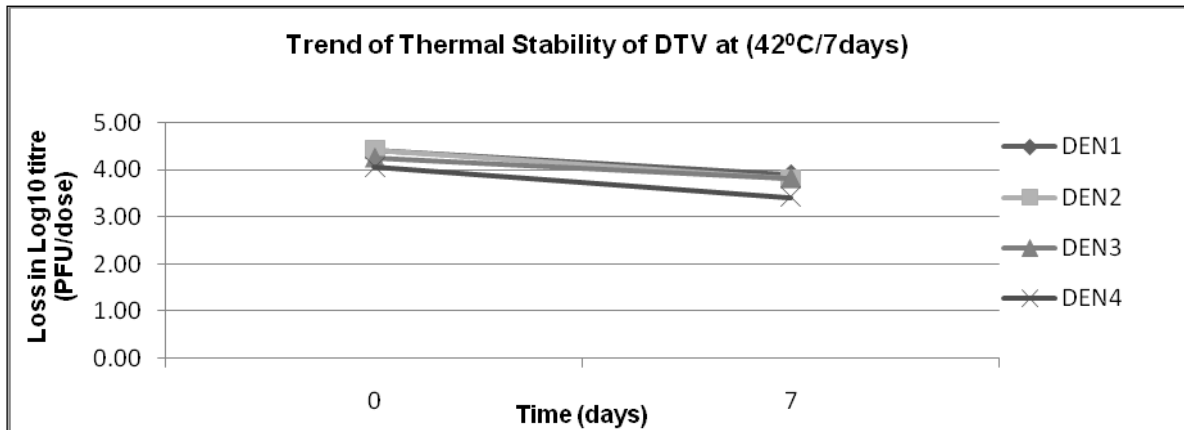


Figure 24: Dengue Tetraivalent Vaccine Stability data at 42°C±1°C up to 7 days post lyophilization