**Table S8.** The goodness of fit and neutrality tests for demographic expansion and population growth estimated from mtDNA D-loop in 119 Nigerian cattle

|  |  |  |  |
| --- | --- | --- | --- |
| **Population**  | **Neutrality test** | **Mismatch distribution** | **Goodness of fit test** |
| **Tajima's D (p)** | **Fu's FS (p)** | **Tau**  | **Theta 0** | **Theta 1** | **SSD (p)** | **HRI (p)** |
| North West | -2.143 (0.005)  | -26.243 (0.000)  | 3.000  | 0.550  | 3414.978  | 0.008 (0.001) | 0.042 (0.002) |
| North East | -2.366 (0.002)  | -26.160 (0.000)  | 3.000  | 0.550  | 3414.978  | 0.005 (0.013) | 0.037 (0.004) |
| West | 0.000 (1.000)  | -0.341 (0.191)  | 3.000  | 0.550  | 3414.978  | NA | NA |
| All  | -2.3145 (0.000)  | -26.203 0.000)  | 3.000  | 0.550  | 3414.978  | 0.006 (0.001)  | 0.0381 (0.0381) |

Note: SSD = Sum of Squared deviation, HRI = Harpending's Raggedness index, p = P-value