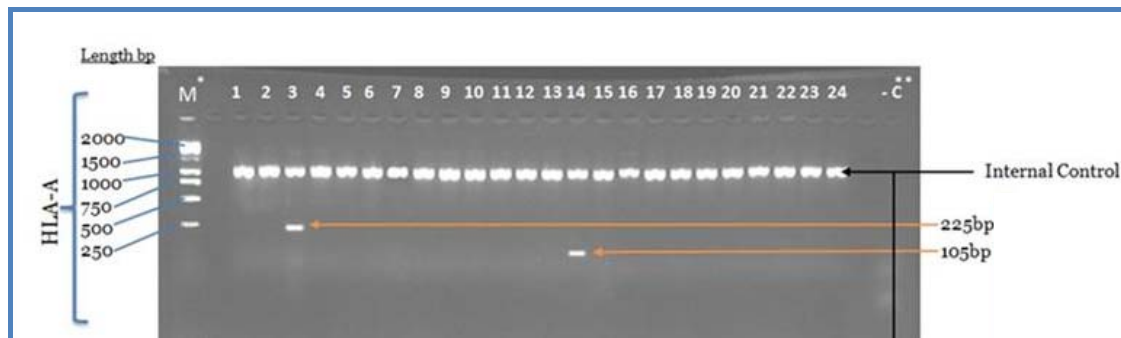
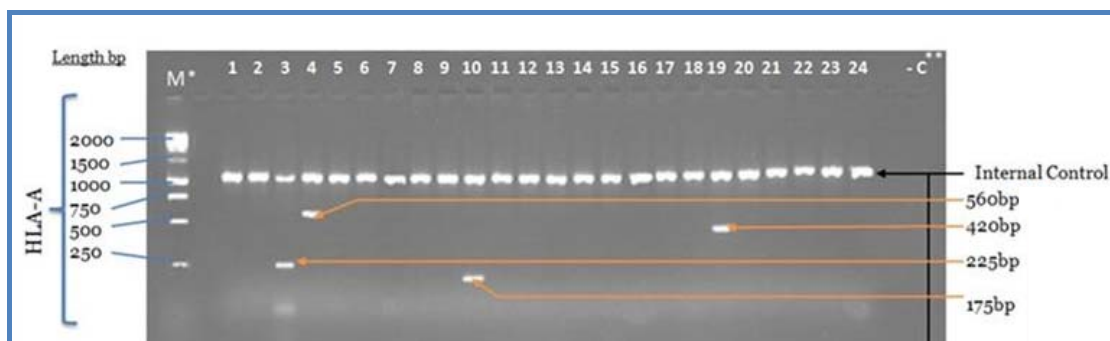


the involvement of a viral agent in human mammary carcinogenesis (murine mammary tumor virus) <sup>(23, 24)</sup>. In conclusion, these findings demonstrated that HLA-

A\*03010101-07, 09-11N, 13-16 allele might play a role in BC susceptibility, suggesting HLA-based different etiopathogenesis.



**Figure 1: Electrophoresis of HLA-A alleles amplification by PCR-SSP.** \*Lane M represent 1 Kb DNA Ladder, \*\*Lane-C represent negative control. HLA-A genotyping was obtained by using primers that detect the following alleles as they were present in the numbered wells, respectively: 1= A1/ - / Null; 2= A2 /Low A2 / A203 / - / A210 / Null; 3= A2 / - ; 4= A3 / Null / - ; 5= A11 / - / Null ; 6= A23(9) / - / Null ; 7= A24(9) / Low A24/ Null / A2403 / A9 / - ; 8= A24(9) / - ; 9= A25(10) / - ; 10= A26(10),A10,Null ; 11= A26(10) ; 12= A29(19) / Null / - ; 13= A30(19) / - ; 14= A31(19) / - ; 15= - / A31(19); 16= A32(19) / - ; 17= A34(10) / - ; 18= A36 / - ; 19= A43 ; 20= A66(10) / - ; 21= A68(28) / A28 / Null / - ; 22= A69(28) ; 23= A74(19) / - ; 24= A80.



**Figure 2: Electrophoresis of HLA-A alleles amplification by PCR-SSP.** \*Lane M represent 1 Kb DNA Ladder, \*\*Lane-C represent negative control. HLA-A genotyping was obtained by using primers that detect the following alleles as they were present in the numbered wells, respectively: 1= A1/ - / Null; 2= A2 /Low A2 / A203 / - / A210 / Null; 3= A2 / - ; 4= A3 / Null / - ; 5= A11 / - / Null ; 6= A23(9) / - / Null ; 7= A24(9) / Low A24/ Null / A2403 / A9 / - ; 8= A24(9) / - ; 9= A25(10) / - ; 10= A26(10),A10,Null ; 11= A26(10) ; 12= A29(19) / Null / - ; 13= A30(19) / - ; 14= A31(19) / - ; 15= - / A31(19); 16= A32(19) / - ; 17= A34(10) / - ; 18= A36 / - ; 19= A43 ; 20= A66(10) / - ; 21= A68(28) / A28 / Null / - ; 22= A69(28) ; 23= A74(19) / - ; 24= A80.