

Fig 4.2: Clinical symptoms of Chikungunya Virus infected patients on fingers, feet and trunk
A) Swelling of wrist and Small finger joints
B) Swelling of ankle feet
C) Appearance of rash on side posterior area

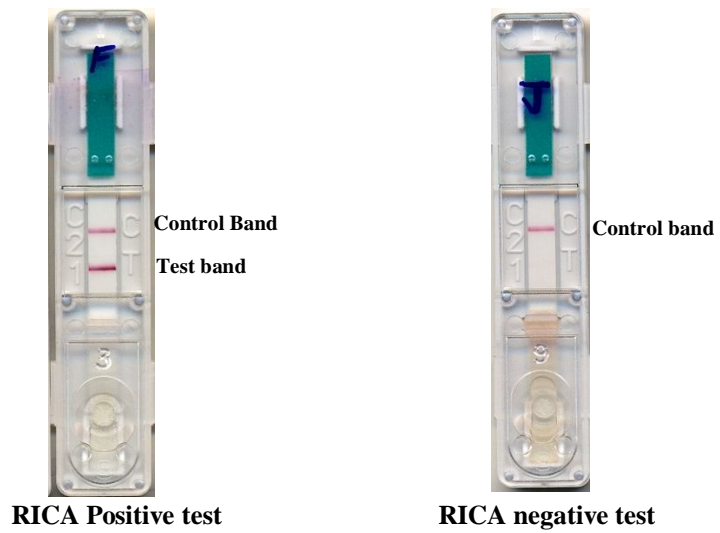


Fig 4.3: RICA positive and negative test results of convalescent sera

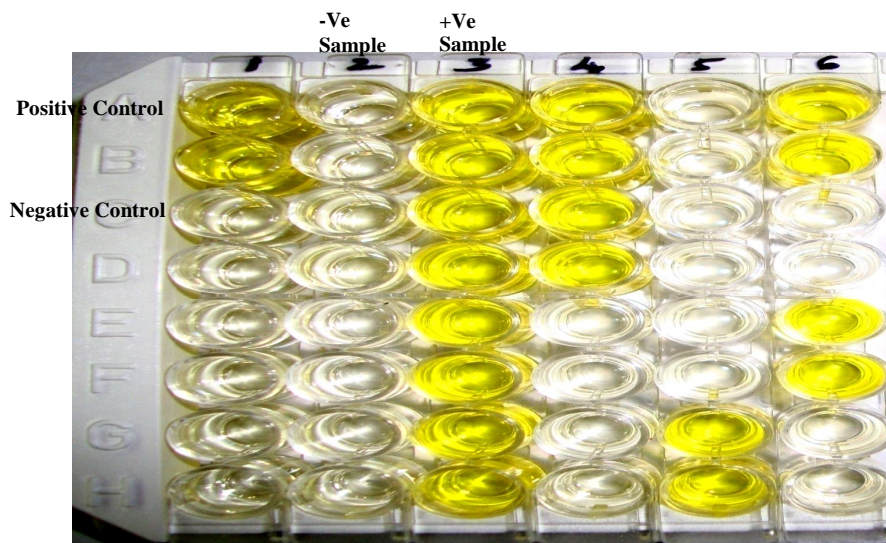


Fig 4.4: MAC-ELISA positive and negative test result of convalescent sera

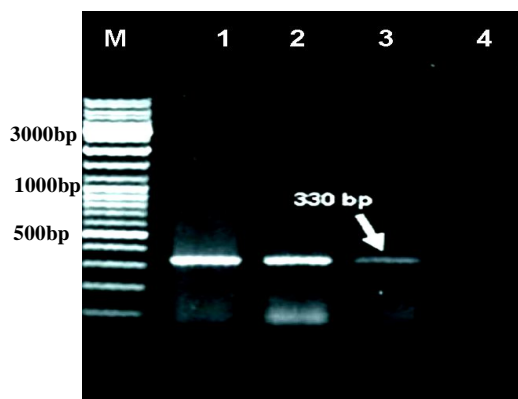


Fig 4.5: Gel photograph showing 330bp fragment of E1 gene of *Chikungunya virus* by Reverse Transcriptase - Polymerase Chain Reaction (RT-PCR)

Lane M: GeneRuler™ DNA Ladder (Fermentas)
 Lane 1-3: CHIKV positive clinical samples
 Lane 4: CHIKV negative clinical sample

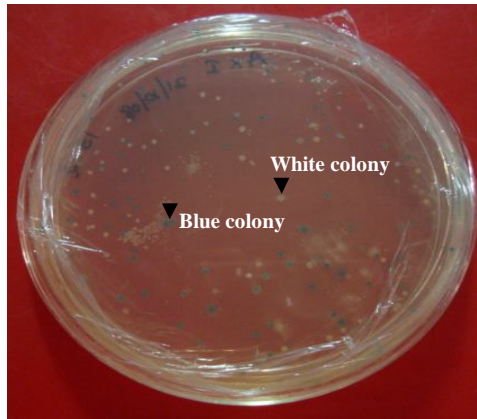


Fig 4.6: Photograph showing blue (non-recombinant) and white (recombinant) colonies

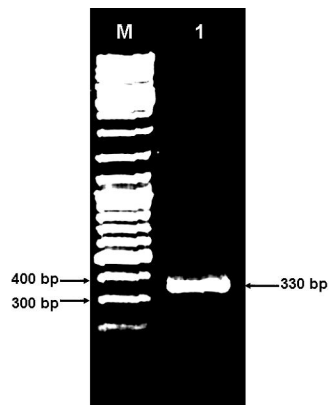


Fig 4.7: Gel photograph showing recombinant clone confirmation Colony PCR

Lane M: GeneRuler™ DNA Ladder (Fermentas)
Lane 1: 330bp specific colony PCR Product

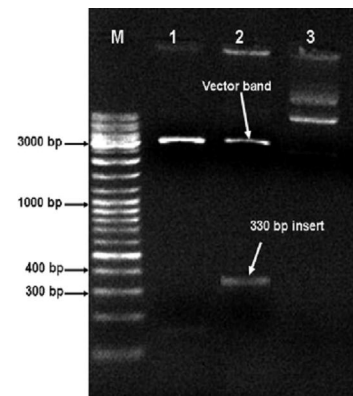


Fig4.8: Restriction endonuclease analysis of Recombinant plasmids

Lane M: GeneRuler™ DNA Ladder (Fermentas)
Lane 1: Recombinant clone releasing no insert
Lane 2: Recombinant clone, digested with EcoR1 enzyme, releasing 3015 bp (vector) and 330bp fragments (insert)
Lane 3: Recombinant plasmid DNA