

LIST OF SYMBOLS AND ABBREVIATIONS

| | |
|----------------|--|
| AIDS | Acquired Immuno Deficiency Syndrome |
| ATP | Adenosine Tri Phosphate |
| AZT | Azidothymidine |
| BN-PAGE | Blue Native-polyacrylamide gel electrophoresis |
| bp | base pair |
| BSA | Bovine Serum Albumin |
| CCR5 | β -chemokine receptor 5 |
| cDNA | complementary deoxy ribo nucleic acid |
| CRF | circulating recombinant forms |
| CXCR4 | α -chemokine receptor 4 |
| DMEM | Dulbecco's Minimum Essential Medium |
| DMSO | Dimethyl sulfoxide |
| EDTA | Ethylene tetra amine acetate |
| ELISA | Enzyme Linked Immunosorbent Assay |
| FACS | Fluorescence activated cell sorting |
| FCS | Fetal Calf serum |
| FITC | Fluorescein iso thio cyanate |
| GFP | Green fluorescent protein |
| HBSS | Hanks balanced salt solution |
| HIV-1 | Human Immunodeficiency Virus-1 |
| hPBMCs | human peripheral blood mononuclear cells |
| hr(s) | hour(s) |
| HRP | Horse Radish peroxidase |
| IFN | Interferon |
| IL | Interleukin |
| kb | kilo base |
| kDa | Kilo dalton |
| LB | Luria broth |
| LTR | Long terminal repeat |
| MACS | Magnet activated cell sorting |
| MAPK | Mitogen activated protein kinase |
| MFI | mean fluorescence intensity |
| mg | milligram |
| min(s) | minute(s) |
| MIP-1 α | macrophage inflammatory protein-1-alpha |
| MIP-1 β | macrophage inflammatory protein-1-beta |
| ml | millilitre |
| mM | milli molar |
| MOI | multiplicity of infection |
| mRNA | messenger ribonucleic acid |
| NAC | N-Acetyl cysteine |
| NADH | Nicotinamide adenine dinucleotide (reduced) |
| nm | nano meter |
| nM | nano molar |

| | |
|---------------|---|
| NSI | Non-syncytia inducing |
| O.D | Optical density |
| PBS | Phosphate buffered saline |
| PCR | polymerase chain reaction |
| PHA-M | Phytohaemagglutinin-M |
| PS | phosphotidyl serine |
| PVDF | Polyvinylidene Fluoride |
| RANTES | Regulated on activation, normal T-cell expressed and secreted |
| RIPA | Radio immuno-precipitation assay |
| RNA | Ribonucleic acid |
| ROS | Reactive oxygen species |
| rpm | revolutions per minutes |
| RT | room temperature |
| RT-PCR | Reverse transcription-polymerase chain reaction |
| SAGE | Serial analysis of gene expression |
| SDS-PAGE | Sodium dodecyl sulphate-polyacrylamide gel electrophoresis |
| SI | Syncytia inducing |
| TGF- β | Transforming growth factor- β |
| TNF | Tumor necrosis factor |
| X-gal | 5-bromo-4-chloro-3-indoylyl galactosidase |
| μg | microgram |
| μl | microlitre |
| μM | micro molar |