Table 1.1 : Final HLA I  (CTL) Epitopes  Considered for Vaccine Construction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Epitope** | **Allele** | **Allergenicity** | **Antigenicity** | **Toxicity** |
| LADKYKDKY | HLA-A\*01:01 | Non-allergen | Antigen 0.652 | Non-Toxin |
| KVTAQELDY | HLA-A\*01:01 | Non-allergen | Antigen 0.9895 | Non-Toxin |
| ILIFALILV | HLA-A\*02:01 | Non-allergen | Antigen 2.1073 | Non-Toxin |
| LYFDLIYSI | HLA-A\*24:02 | Non-allergen | Antigen 1.5732 | Non-Toxin |
| NYDNVRVEF | HLA-A\*24:02 | Non-allergen | Antigen 1.2491 | Non-Toxin |
| KYRSITVRV | HLA-A\*24:02 | Non-allergen | Antigen 1.0403 | Non-Toxin |
| MMPAPGDKF | HLA-A\*24:02 | Non-allergen | Antigen 0.5932 | Non-Toxin |
| DVFGANYYY | HLA-A\*26:01 | Non-allergen | Antigen 1.1312 | Non-Toxin |

Table 1.2 Final B-cell Epitopes  Considered for Vaccine Construction

|  |  |  |  |
| --- | --- | --- | --- |
| **Epitope** | **Allergenicity** | **Antigenicity** | **Toxicity** |
| DINSHQTDKRK | Non-allergen | Antigen 1.9981 | Non-Toxin |
| NQIDKNNSTDN | Non-allergen | Antigen 0.9658 | Non-Toxin |

Table 1.3  Final MHCII/HTL Epitopes Considered for Vaccine Construction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Epitope sequence** | **Allele** | **Allergenicity** | **Antigenicity** | **Toxicity** |
| KNLLSFDVQTNKKKV | DRB1\_0301 | Non-allergen | Antigen 0.9857 | Non-toxin |
| YLLIYNDNKTVESKS | DRB1\_0301 | Non-allergen | Antigen 1.0295 | Non-toxin |
| TVQVTIDNRQSLGFT | DRB1\_0301 | Non-allergen | Antigen 0.7041 | Non-toxin |
| QFLYFDLIYSIKDTK | DRB1\_0405 | Non-allergen | Antigen 0.8390 | Non-toxin |
| VFHNINYANSQPDPK | DRB1\_0405 | Non-allergen | Antigen 0.5395 | Non-toxin |
| PFVPYKFLNIYGDNK | DRB1\_0405 | Non-allergen | Antigen 0.8479 | Non-toxin |
| QSLGFTITTNKNMVT | DRB1\_0701 | Non-allergen | Antigen 0.6613 | Non-toxin |
| SEINIKAQEKFLQHD | DRB1\_1101 | Non-allergen | Antigen 0.7598 | Non-toxin |
| NMRYLYDDKHVSEIN | DRB1\_1101 | Non-allergen | Antigen 0.5801 | Non-toxin |
| SAINVKSIDQFLYFD | DRB1\_1201 | Non-allergen | Antigen 0.7926 | Non-toxin |
| KDKYVDVFGANYYYQ | DRB1\_1201 | Non-allergen | Antigen 0.7688 | Non-toxin |
| GFTITTNKNMVTIQE | DRB1\_1302 | Non-allergen | Antigen 0.6271 | Non-toxin |