

## List of Tables

| <b>Table No.</b> | <b>Description</b>  | <b>Page No.</b> |
|------------------|---|-----------------|
| 2.1              | Hepatitis B markers and its probability in various infection conditions                           | 21              |
| 2.2              | Interferon drugs and their adverse effects  | 30              |
| 2.3              | Comparatively features of various mice models   | 47              |
| 4.1              | List of independent, dependent variables and their corresponding levels                           | 61              |
| 4.2              | Combined effect of independent variables on particle size and entrapment efficiency               | 62              |
| 4.3              | A freeze drying cycle for antigen loaded polymeric nanoparticles                                  | 65              |
| 4.4              | <i>In-vivo</i> immunization schedule used in experiment   | 77              |
| 4.5              | <i>In-vivo</i> immunization schedule used in experiment   | 80              |
| 4.6              | Serological data of PBMCs Donors/patients suffering from HBV                                      | 91              |
| 4.7              | Chimera mice groups and vaccination schedule  | 94              |
| 5.1              | Analytical method validation parameter  | 102             |
| 5.2              | Combined effects of the four independent variables on the particle size and entrapment efficiency | 104             |
| 5.3              | Estimated model and statistical validation of developed formulation                               | 105             |
| 5.4              | Optimal predicted and experimental batch with dependent and independent process variables         | 115             |
| 5.5              | Various surface characters of nanoparticles   | 119             |
| 5.6              | Correlation coefficient value of HBsAg loaded nanoparticles                                       | 122             |
| 5.7              | Percentage uptake of Blank NPs, Plain HBsAg and HBsAg loaded NPs after 24 hr.                     | 129             |
| 5.8              | Stability studies of HBsAg loaded nanoparticles   | 134             |
| 5.9              | Stimulation Index of different samples like Blank NPs, Plain HBsAg and HBsAg loaded NPs           | 145             |
| 5.10             | Proliferation Index of different samples  | 147             |

