ANOVA analysis for the effect of DET solution concentration on nanoparticles size

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| DET solution concentration | 2 | 141.97 | 70.984 | 28.75 | 0.001 |
| Error | 6 | 14.81 | 2.469 |  |  |
| Cumulative total | 8 | 156.78 |  |  |  |

ANOVA analysis for the effect of chitosan molecular weight on nanoparticles size

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| chitosan molecular weight | 2 | 6.450 | 3.225 | 0.13 | 0.882 |
| Error | 6 | 150.333 | 25.056 |  |  |
| Cumulative total | 8 | 156.783 |  |  |  |

ANOVA analysis for the effect of MTX/DET ratio on nanoparticles size

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| MTX/DET ratio | 2 | 4.860 | 2.430 | 0.10 | 0.910 |
| Error | 6 | 151.923 | 25.320 |  |  |
| Cumulative total | 8 | 156.783 |  |  |  |

ANOVA analysis for the effect of DET solution concentration on PDI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| DET solution concentration | 2 | 65.28 | 32.64 | 1.84 | 0.238 |
| Error | 6 | 106.28 | 17.71 |  |  |
| Cumulative total | 8 | 171.55 |  |  |  |

ANOVA analysis for the effect of chitosan molecular weight on PDI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| chitosan molecular weight | 2 | 83.35 | 41.67 | 2.83 | 0.136 |
| Error | 6 | 88.21 | 14.70 |  |  |
| Cumulative total | 8 | 171.55 |  |  |  |

ANOVA analysis for the effect of MTX/DET ratio on PDI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| MTX/DET ratio | 2 | 16.93 | 8.466 | 0.33 | 0.732 |
| Error | 6 | 154.62 | 25.770 |  |  |
| Cumulative total | 8 | 171.55 |  |  |  |

ANOVA analysis for the effect of DET solution concentration on Zeta potential

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| DET solution concentration | 2 | 1.958 | 0.9788 | 0.64 | 0.562 |
| Error | 6 | 9.244 | 1.5407 |  |  |
| Cumulative total | 8 | 11.202 |  |  |  |

ANOVA analysis for the effect of chitosan molecular weight on Zeta potential

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| chitosan molecular weight | 2 | 4.510 | 2.255 | 2.02 | 0.213 |
| Error | 6 | 6.692 | 1.115 |  |  |
| Cumulative total | 8 | 11.202 |  |  |  |

ANOVA analysis for the effect of MTX/DET ratio on Zeta potential

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| MTX/DET ratio | 2 | 0.6010 | 0.3005 | 0.17 | 0.848 |
| Error | 6 | 10.6009 | 1.7668 |  |  |
| Cumulative total | 8 | 11.2019 |  |  |  |

ANOVA analysis for the effect of DET solution concentration on Zeta deviation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| DET solution concentration | 2 | 92.13 | 46.07 | 0.38 | 0.702 |
| Error | 6 | 736.80 | 122.80 |  |  |
| Cumulative total | 8 | 828.93 |  |  |  |

ANOVA analysis for the effect of chitosan molecular weight on Zeta deviation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| chitosan molecular weight | 2 | 592.1 | 296.06 | 7.50 | 0.023 |
| Error | 6 | 236.8 | 39.47 |  |  |
| Cumulative total | 8 | 828.9 |  |  |  |

ANOVA analysis for the effect MTX/DET ratio of on Zeta deviation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | d.f | Sum of square | Mean square | F- value | P- value |
| MTX/DET ratio | 2 | 120.4 | 60.19 | 0.51 | 0.625 |
| Error | 6 | 708.5 | 118.09 |  |  |
| Cumulative total | 8 | 828.9 |  |  |  |