Table S1. Box–Behnken design for five factors, three levels, and six center points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Experimental run | Incubation time | Incubation temperature | Injection volume | Amount of sample | Pre-heating time |
| X1, min | X2, oC | X3, mL | X4, g | X5, min |
| 1 | 0 | 1 | 1 | 0 | 0 |
| 2 | 1 | 0 | 0 | 0 | 1 |
| 3 | -1 | 0 | 0 | 1 | 0 |
| 4 | 1 | 0 | -1 | 0 | 0 |
| 5 | 0 | 0 | -1 | 0 | 1 |
| 6 | 0 | 0 | 1 | 0 | 1 |
| 7 | -1 | 1 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | -1 | -1 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 1 | 0 | 0 | 1 |
| 12 | 0 | -1 | 1 | 0 | 0 |
| 13 | 1 | 0 | 0 | 1 | 0 |
| 14 | 0 | 1 | 0 | 1 | 0 |
| 15 | 1 | -1 | 0 | 0 | 0 |
| 16 | 0 | -1 | 0 | 1 | 0 |
| 17 | 0 | 0 | -1 | 1 | 0 |
| 18 | 0 | 0 | 1 | 1 | 0 |
| 19 | -1 | 0 | 0 | 0 | 1 |
| 20 | 0 | -1 | 0 | 0 | 1 |
| 21 | 1 | 1 | 0 | 0 | 0 |
| 22 | 0 | 0 | -1 | 0 | -1 |
| 23 | -1 | -1 | 0 | 0 | 0 |
| 24 | 0 | 0 | 1 | 0 | -1 |
| 25 | -1 | 0 | 0 | -1 | 0 |
| 16 | 0 | 0 | 0 | -1 | 1 |
| 27 | 0 | 0 | 0 | 1 | 1 |
| 28 | -1 | 0 | -1 | 0 | 0 |
| 29 | 0 | 0 | 0 | 1 | -1 |
| 30 | 0 | -1 | 0 | -1 | 0 |
| 31 | 0 | -1 | 0 | 0 | -1 |
| 32 | 0 | 1 | -1 | 0 | 0 |
| 33 | 0 | 0 | 1 | -1 | 0 |
| 34 | 0 | 1 | 0 | -1 | 0 |
| 35 | 1 | 0 | 0 | 0 | -1 |
| 36 | 0 | 0 | 0 | 0 | 0 |
| 37 | -1 | 0 | 1 | 0 | 0 |
| 38 | 0 | 0 | -1 | -1 | 0 |
| 39 | 1 | 0 | 1 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 |
| 42 | -1 | 0 | 0 | 0 | -1 |
| 43 | 0 | 0 | 0 | 0 | 0 |
| 44 | 1 | 0 | 0 | -1 | 0 |
| 45 | 0 | 1 | 0 | 0 | -1 |
| 46 | 0 | 0 | 0 | -1 | -1 |