

Table 1. The kinetics models used to fit the release data.

| Kinetics model | pH 6 | | pH 7.4 | |
|----------------------------|-------|--|--------|--|
| | MPE % | Coefficient of determination (R ²) | MPE % | Coefficient of determination (R ²) |
| Zero order | 55.04 | 0.805 | 28.65 | 0.984 |
| First order | 54.81 | 0.808 | 30.04 | 0.984 |
| Higuchi | 71.22 | 0.854 | 75.04 | 0.915 |
| Peppas (Power Law) | 35.12 | 0.865 | 17.63 | 0.957 |
| Hixon-Crowell | 54.89 | 0.807 | 29.77 | 0.984 |
| Square root of mass | 54.93 | 0.807 | 29.74 | 0.984 |
| Three seconds root of mass | 54.97 | 0.806 | 29.11 | 0.984 |
| Weibull | 35.08 | 0.865 | 17.84 | 0.957 |
| Linear Probability | 50.78 | 0.869 | 24.64 | 0.891 |
| Log-Probability | 37.41 | 0.855 | 22.85 | 0.937 |
| Reciprocal powered time | 35.04 | 0.864 | 18.04 | 0.956 |
| Non-conventional order 1 | 55.81 | 0.806 | 28.86 | 0.984 |
| Non-conventional order 2 | 54.77 | 0.809 | 30.24 | 0.984 |