pharmaceutics

# Supplementary Materials: Development of a Solid Formulation Containing a Microemulsion of a Novel *Artemisia* Extract with Nematocidal Activity for Oral Administration

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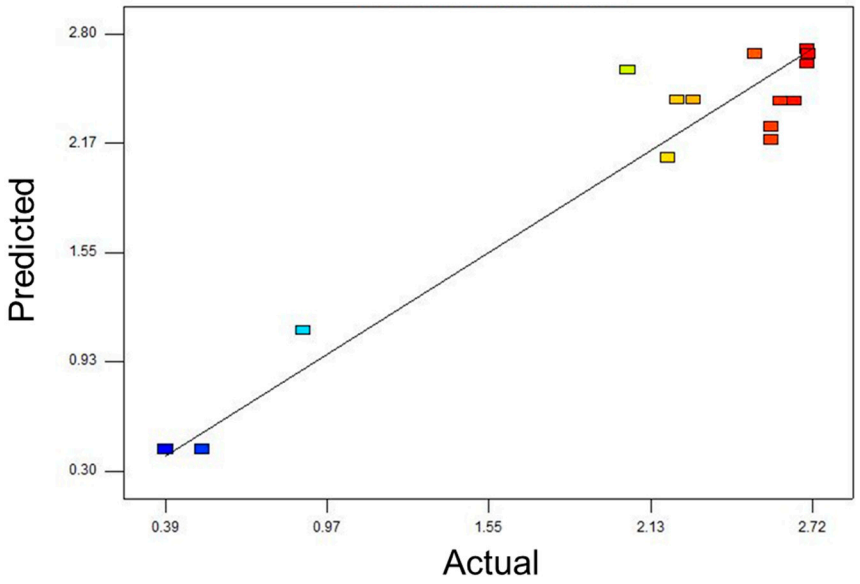


**Figure S1.** Predicted vs actual values plot tensile strength model.

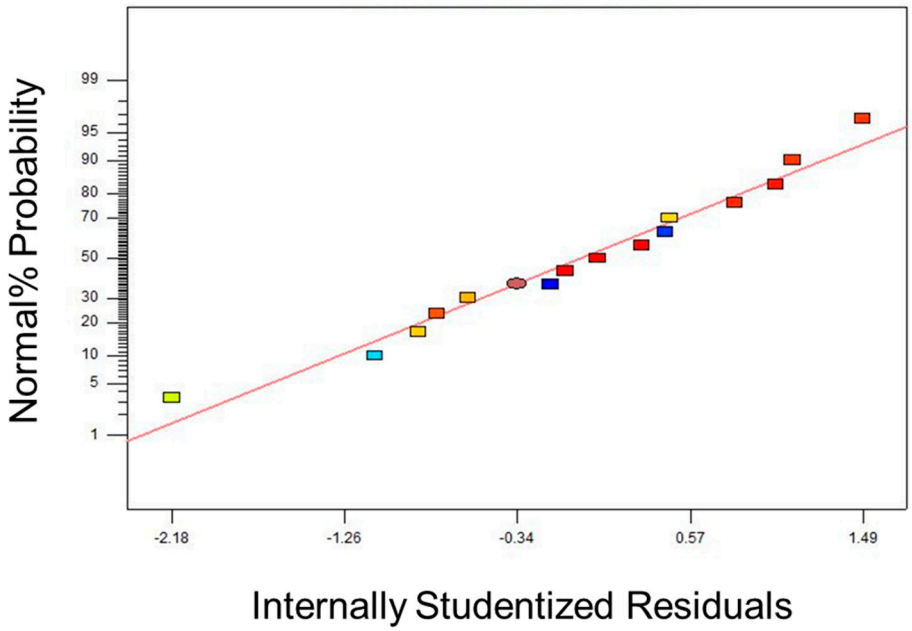


**Figure S2.** Normalized probability plot tensile strength model. .

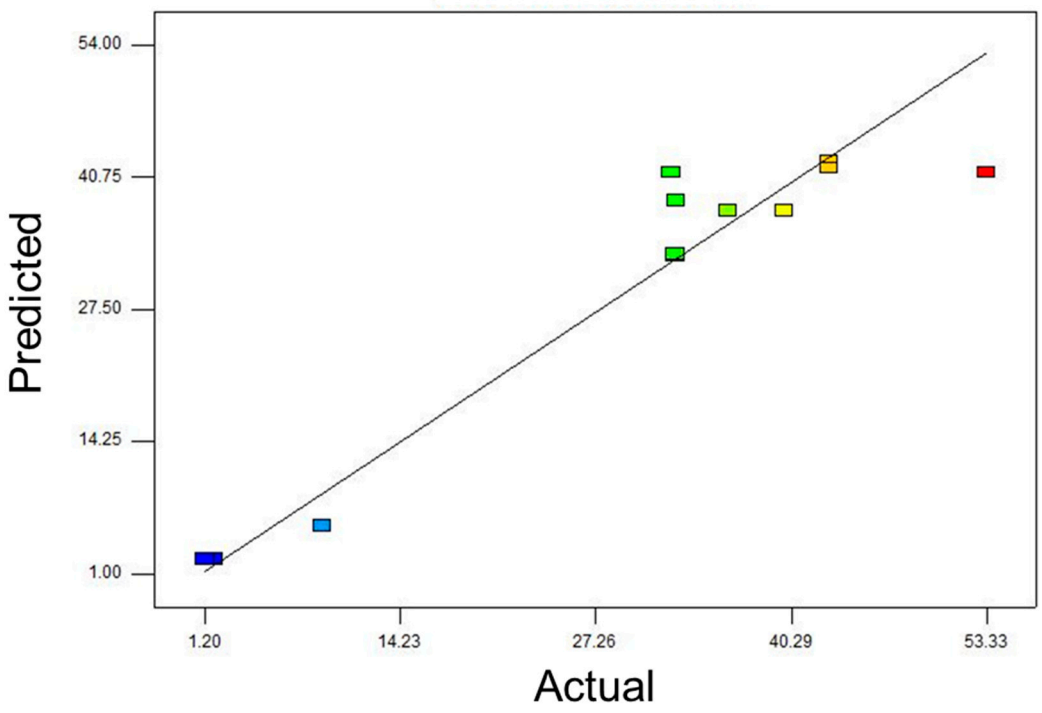


**Figure S3.** Predicted vs actual values plot disintegration time model.

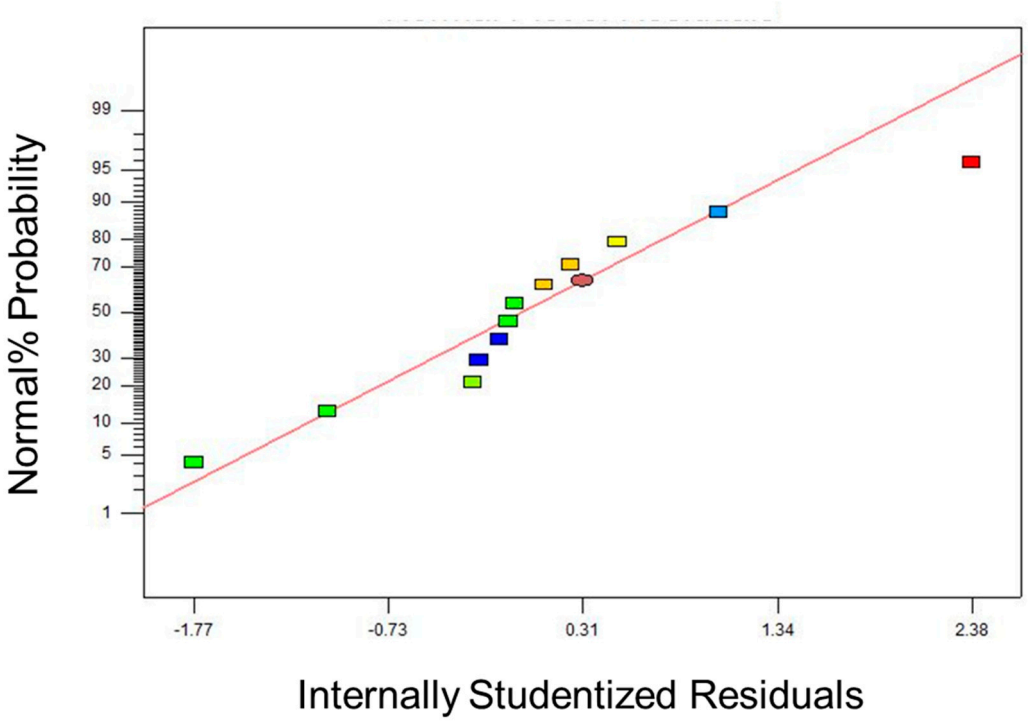


**Figure S4.** Normalized probability plot disintegration time model. .

**Table S1.** Final report of the tensile strength model.

| Run | Actual Value | Predicted Value | Residual | Leverage | Internally Studentized Residual | Externally Studentized Residual | Influence on Fitted Value (DFFITS) | Cook's Distance |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.51 | 2.68 | -0.170 | 0.404 | -0.770 | -0.752 | -0.619 | 0.067 |
| 2 | 2.65 | 2.42 | 0.230 | 0.392 | 1.023 | 1.027 | 0.825 | 0.113 |
| 3 | 0.39 | 0.43 | -0.037 | 0.464 | -0.170 | -0.161 | -0.150 | 0.004 |
| 4 | 2.70 | 2.72 | -0.019 | 0.527 | -0.092 | -0.087 | -0.092 | 0.002 |
| 5 | 2.05 | 2.60 | -0.540 | 0.274 | -2.175 | -2.978 | -1.827 | 0.297 |
| 6 | 2.29 | 2.42 | -0.140 | 0.418 | -0.606 | -0.583 | -0.495 | 0.044 |
| 7 | 2.57 | 2.27 | 0.300 | 0.161 | 1.113 | 1.130 | 0.495 | 0.040 |
| 8 | 0.52 | 0.43 | 0.094 | 0.464 | 0.437 | 0.416 | 0.388 | 0.028 |
| 9 | 2.70 | 2.68 | 0.018 | 0.404 | 0.079 | 0.074 | 0.061 | 0.001 |
| 10 | 2.23 | 2.42 | -0.200 | 0.418 | -0.872 | -0.859 | -0.729 | 0.091 |
| 11 | 0.88 | 1.10 | -0.220 | 0.535 | -1.101 | -1.116 | -1.198 | 0.233 |
| 12 | 2.20 | 2.09 | 0.100 | 0.403 | 0.463 | 0.442 | 0.363 | 0.024 |
| 13 | 2.57 | 2.19 | 0.370 | 0.270 | 1.486 | 1.612 | 0.980 | 0.136 |
| 14 | 2.70 | 2.63 | 0.067 | 0.472 | 0.313 | 0.296 | 0.280 | 0.015 |
| 15 | 2.60 | 2.42 | 0.180 | 0.392 | 0.809 | 0.792 | 0.636 | 0.070 |

**Table S2.** Final report of the disintegration time model.

| Run | Actual Value | Predicted Value | Residual | Leverage | Internally Studentized Residual | Externally Studentized Residual | Influence on Fitted Value (DFFITS) | Cook's Distance |
|---|---|---|---|---|---|---|---|---|
| 1 | 9.22 | 7.11 | 2.10 | 0.452 | 2.392 | 10.15 | 9.22 | 0.788 |
| 2 | 6.40 | 6.59 | -0.19 | 0.494 | -0.223 | -0.204 | -0.202 | 0.008 |
| 3 | 0.30 | 0.42 | -0.12 | 0.474 | -0.136 | -0.124 | -0.118 | 0.003 |
| 4 | 5.67 | 5.72 | -0.049 | 0.529 | -0.061 | -0.055 | -0.059 | 0.001 |
| 5 | 5.60 | 6.61 | -1.01 | 0.360 | -1.060 | -1.074 | -0.805 | 0.105 |
| 6 | 7.38 | 7.31 | 0.077 | 0.454 | 0.088 | 0.080 | 0.073 | 0.001 |
| 7 | 0.20 | 0.42 | -0.22 | 0.474 | -0.252 | -0.231 | -0.219 | 0.010 |
| 8 | 5.55 | 7.11 | -1.56 | 0.452 | -1.779 | -2.362 | -2.15 | 0.436 |
| 9 | 1.50 | 0.95 | 0.55 | 0.799 | 1.032 | 1.039 | 2.07 | 0.705 |
| 10 | 7.38 | 7.18 | 0.20 | 0.539 | 0.252 | 0.231 | 0.250 | 0.011 |
| 11 | 5.67 | 5.74 | -0.078 | 0.477 | -0.091 | -0.083 | -0.079 | 0.001 |
| 12 | 6.95 | 6.59 | 0.36 | 0.494 | 0.428 | 0.397 | 0.393 | 0.030 |