

Supplementary Materials: Quality by Design Micro-Engineering Optimisation of NSAID-Loaded Electrospun Fibrous Patches

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Pattern	Drug	Voltage (kV)	Flow Rate (µl/min)	Distance between Needle and Collector (cm)	Fiber Diameter (nm)	Quality of Fiber
1 1---	Indomethacin	10	5	5	2050	1
2 1---	Indomethacin	10	5	20	2374	1
3 1--	Indomethacin	10	35	5	2070	1
4 1--	Indomethacin	10	35	20	4813	2
5 1000	Indomethacin	15	20	12.5	79.72	5
6 1000	Indomethacin	15	20	12.5	49.29	5
7 1+-	Indomethacin	20	5	5	1348	2
8 1+-	Indomethacin	20	5	20	2239	2
9 1+-	Indomethacin	20	35	5	50.65	4
10 1+-	Indomethacin	20	35	20	81.38	4
11 2---	Diclofenac	10	5	5	30.57	5
12 2---	Diclofenac	10	5	20	145.3	2
13 2--	Diclofenac	10	35	5	410.4	1
14 2--	Diclofenac	10	35	20	4943	1
15 2000	Diclofenac	15	20	12.5	174	5
16 2000	Diclofenac	15	20	12.5	183.4	5
17 2+-	Diclofenac	20	5	5	77.34	5
18 2+-	Diclofenac	20	5	20	183.4	4
19 2+-	Diclofenac	20	35	5	73.63	5
20 2+-	Diclofenac	20	35	20	1734	3

Figure S1. DoE Table highlighting the results found.

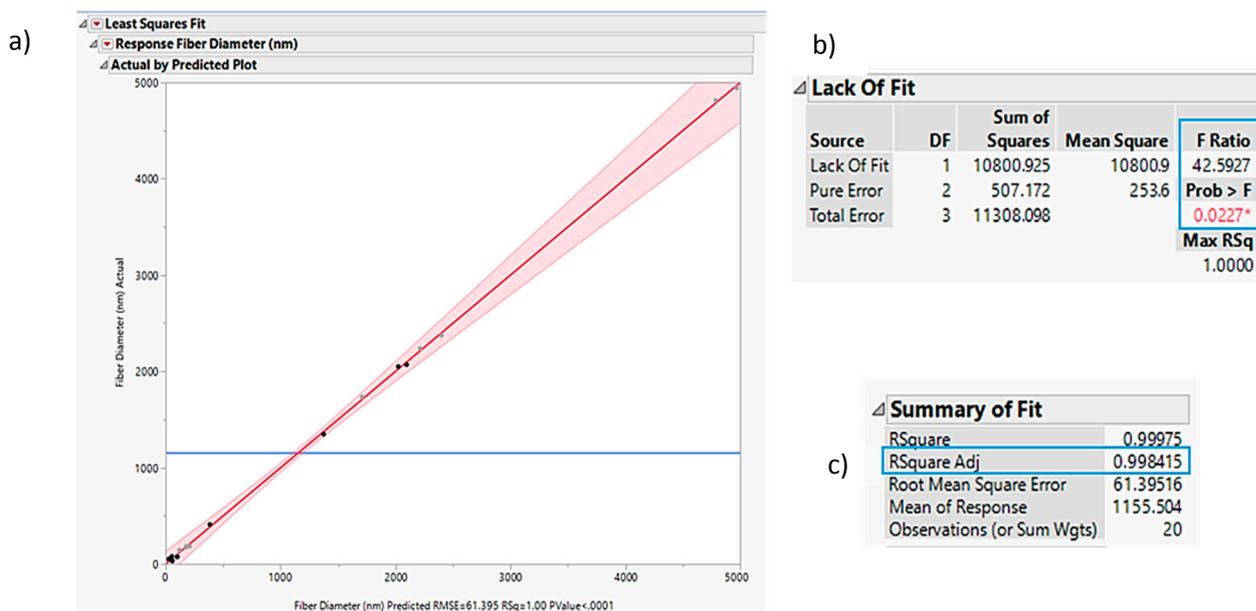


Figure S2. (a) Actual by Predicted Plot for Fibre Diameter, (b) Lack of Fit and (c) Summary of Fit.

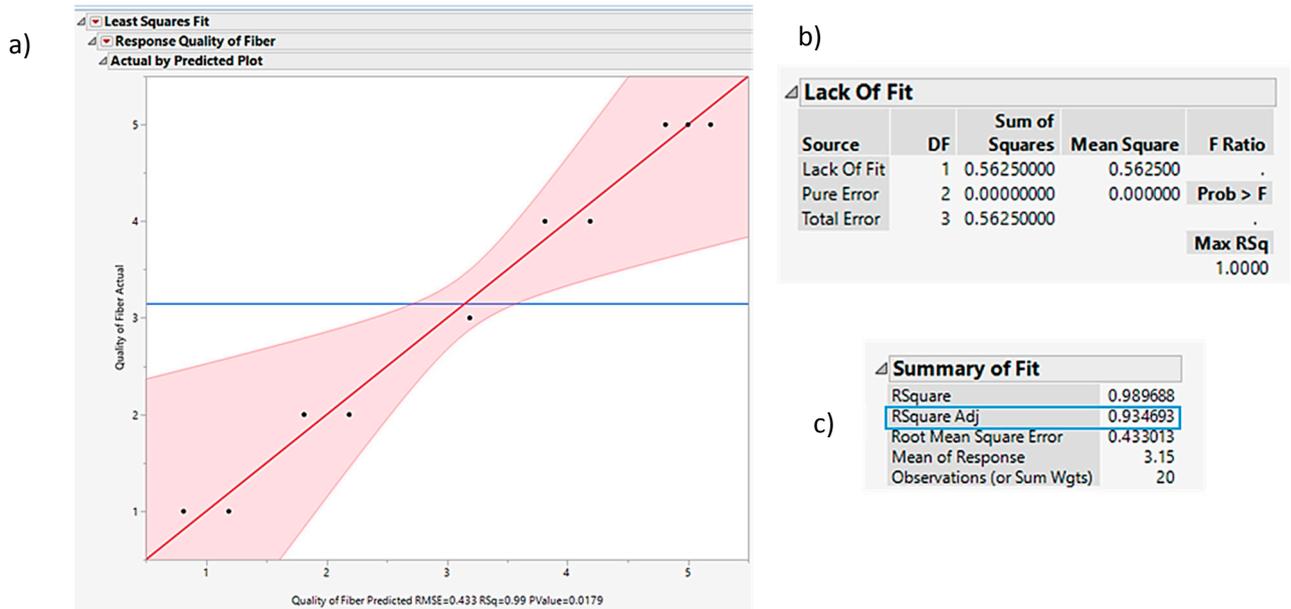
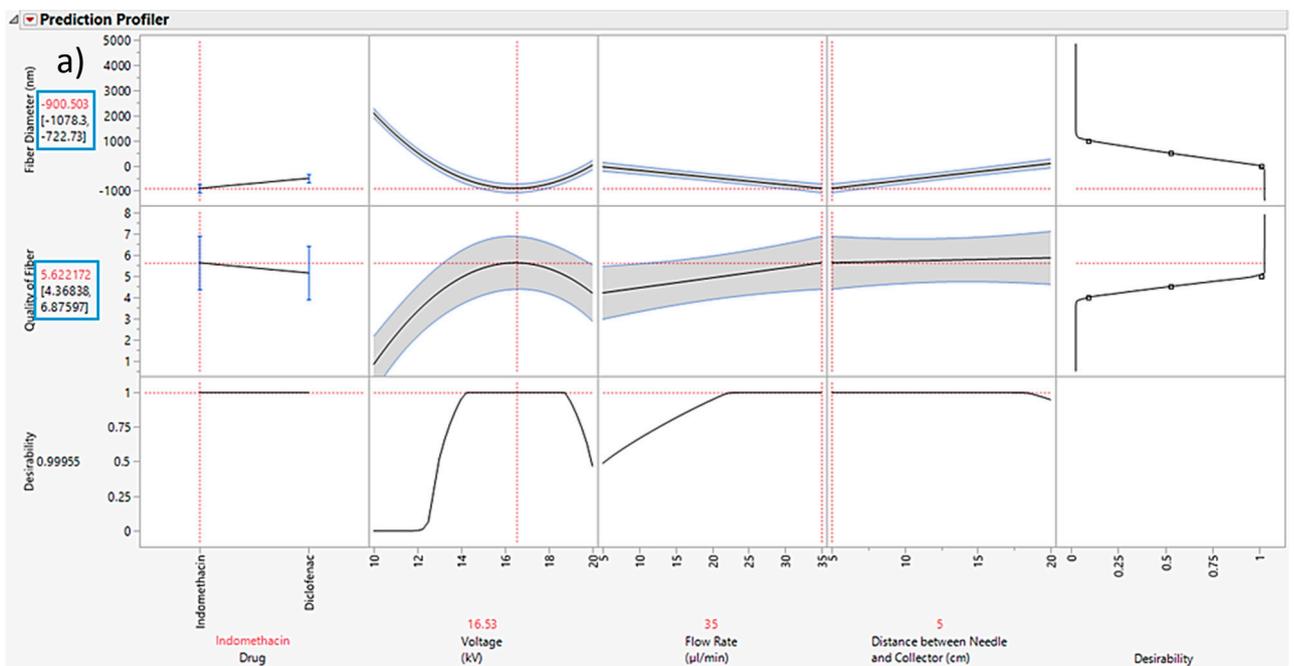


Figure S3. (a) Actual against Predicted Plot for Quality of Fibre, (b) Lack of Fit and (c) Summary of Fit.



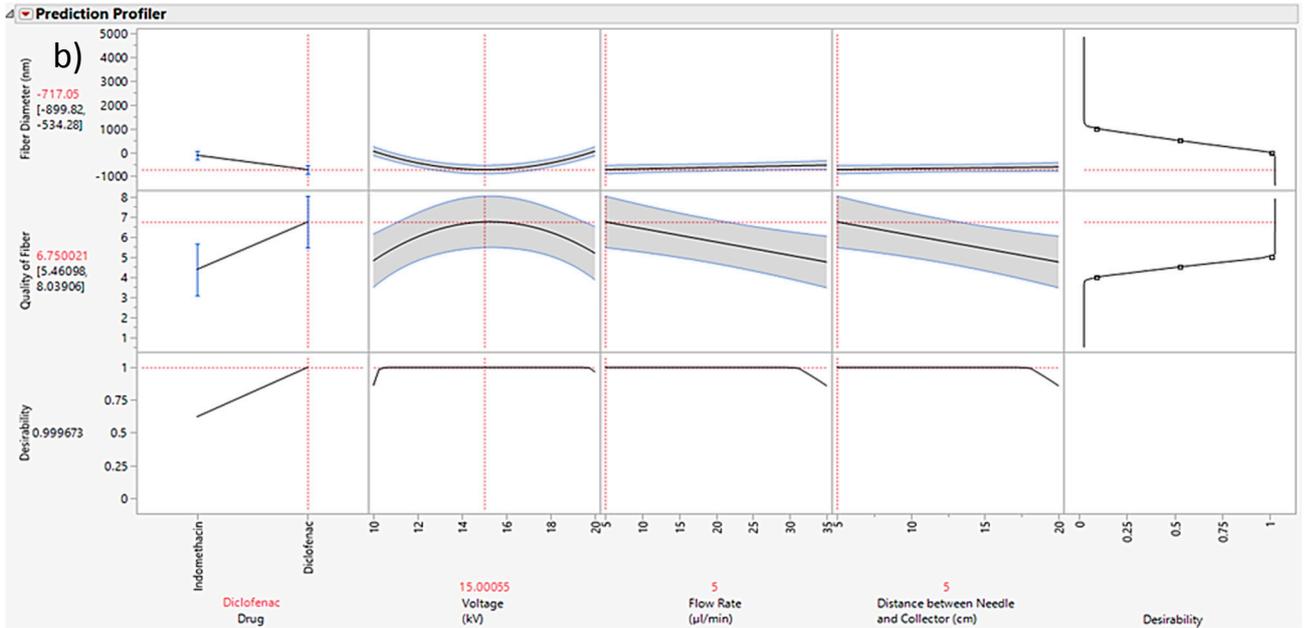


Figure S4. Prediction Profiler for (a) INDO Fibres and (b) DICLO Fibres.