Supplementary Material: Understanding the Effect of Energy Density and Formulation Factors on Printability and Characteristics of SLS Irbesartan Tablets—Application of Decision Tree Model

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Table S1. Parameters obtained by fitting dissolution data to various mathematical models.

Formulation	Zero order		First order		*Higuchi*		Korsmeyer – Peppas		
	k_0	r^2	k_1	r^2	K_h	r^2	k_{kp}	r^2	n
FH1 P1	0.4862	0.9343	0.0110	0.7980	7.8185	**0.9586**	4.5082	0.8400	0.5820
FH1 P2	1.0271	0.9535	0.0170	0.8667	12.3882	**0.9869**	9.5406	0.9763	0.5446
FH1 P3	0.4172	0.9182	0.0069	0.8367	6.8508	**0.9824**	13.6611	0.9800	0.3867
FH1 P4	0.6449	0.8921	0.0126	0.7949	9.7870	**0.9521**	5.3460	0.9260	0.6065
FH2 P1	0.4071	0.8869	0.0083	0.7312	7.6501	0.9695	3.9462	**0.9834**	0.6270
FH2 P2	0.4019	0.9302	0.0088	0.8003	7.4247	0.9832	3.4393	**0.9852**	0.6326
FH2 P3	0.4490	0.7960	0.0080	0.6939	7.6428	0.9151	9.4345	**0.9557**	0.4831
FH3 P1	0.7511	0.9786	0.0145	0.8742	10.7164	**0.9936**	3.8673	0.9898	0.6875
FH3 P2	0.8809	0.8845	0.0139	0.7972	11.6154	0.9574	9.1708	**0.9696**	0.5586
FH3 P3	0.9233	0.9356	0.0146	0.8657	11.9677	**0.9786**	8.6389	0.9752	0.5644
FH3 P4	1.0784	0.8293	0.0142	0.7802	11.5628	0.9192	25.7278	**0.9593**	0.3627
FH4 P1	0.5637	0.9471	0.0136	0.8166	8.9071	**0.9895**	1.9823	0.9798	0.7819
FH4 P2	0.4880	0.8656	0.0080	0.6631	8.1420	0.9471	9.5194	**0.9658**	0.4893
FH4 P3	0.6383	0.9432	0.0124	0.8477	10.0713	**0.9827**	3.3448	0.9792	0.6999
FH4 P4	0.6318	0.8774	0.0119	0.7690	10.1656	**0.9506**	3.7690	0.9487	0.6915
FH4 P5	0.5983	0.9528	0.0117	0.8560	9.4157	**0.9875**	3.9047	0.9850	0.6583
FH4 P6	0.5120	0.9444	0.0087	0.8870	8.0648	**0.9806**	9.1261	0.9792	0.4775
FH5 P1	0.8591	0.9041	0.0148	0.7786	12.6083	**0.9713**	3.8018	0.9710	0.7404
FH5 P2	0.8351	0.8821	0.0131	0.7436	12.3433	**0.9612**	5.6359	0.9559	0.6657
FH6	0.3432	0.4868	0.0038	0.4760	4.0126	0.6417	67.4411	**0.7938**	0.1126
FH7 P1	0.8743	0.9237	0.0180	0.9061	11.3225	**0.9645**	13.2711	0.9642	0.4722
FH7 P2	2.1190	0.9810	0.0272	0.9378	16.6109	0.9960	27.6331	0.9964	0.3934
FH8 P1	1.5629	0.9387	0.0278	0.9317	15.9325	0.9792	19.7032	**0.9823**	0.4678
FH8 P2	1.1162	0.8977	0.0197	0.8996	11.4342	0.9457	29.8048	**0.9660**	0.3344
FH8 P3	1.4679	0.9430	0.0283	0.9385	14.9307	0.9795	17.5138	**0.9866**	0.4756

k_0—zero order rate constant, k_1—first order rate constant, k_h—Higuchi dissolution constant, k_{kp}—Korsmeyer release rate constant, r^2—coeffcient of determination, n—drug release exponent.