## Development of lornoxicam multiparticulate sustained release drug delivery system using copal gum-pectin and optimization by applying central composite design

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ANOVA for all the responses is represented in Table S1. From the ANOVA results, the responses  $Y_1$ ,  $Y_2$ ,  $Y_4$ , the quadratic effect ( $X_1^2$ ,  $X_2^2$ ) and linear effect ( $X_1$ - copal gum,  $X_2$ - pectin) are significant while for response  $Y_3$ , no model is significant.

Table S1. ANOVA for all responses

	Y <sub>1</sub>		Y <sub>2</sub>		Y <sub>3</sub>		Y <sub>4</sub>	
Sources	F Value	p-value	F Value	p-value	F Value	p-value	F Value	p-value
Model	9.35	0.0476	15.16	0.0244	1.28	0.4459	9.03	0.0499
$X_1$	27.23	0.0137	36.00	0.0093	0.14	0.7307	0.33	0.6079
$X_2$	2.80	0.1926	8.73	0.0598	5.49	0.1010	12.25	0.0395
$X_1X_2$	4.52	0.1236	10.93	0.0455	0.33	0.6067	3.04	0.1798
$\chi_1^2$	6.64	0.0820	9.68	0.0528	0.43	0.5599	3.07	0.1782
$x_2^2$	0.031	0.8706	0.26	0.6424	0.31	0.6170	25.83	0.0147

 $P^* = < 0.05$  indicate significant model terms

The extensive grid and feasibility searches provided that the optimum formulations and the desired function response overlay plot are as shown in Figure S1, where one solution was found with a highest desirability.

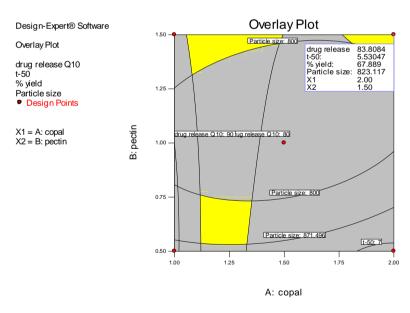


Figure S1. Overlay plot indicating the region of optimal process variable setting for pellets formulation