

Supplementary Material
for
**Sustainable Stabilizer-Free Nanoparticle Formulations
of Valsartan Using Eudragit® RLPO**

Eszter Hajba-Horváth, Andrea Fodor-Kardos, Nishant Shah, Matthias G.
Wacker and Tivadar Feczko

Table S1. Experimental parameters of valsartan-loaded Eudragit RLPO nanoparticles prepared by single emulsion-solvent evaporation method, the measured average particle sizes, polydispersity indexes, and the calculated encapsulation efficiency and yield. In the case of encapsulation efficiency the standard deviation of three parallel measurements are shown as well.

Sample ID	Eudragit RLPO quantity (mg)	Valsartan quantity (mg)	PVA conc. (%)	Mean size by intensity (%)	PDI	Encaps. efficiency (%)	SD	Yield (%)
EUV28	80.0	40.0	0.0	139.1	0.132	96.4	1.1	79.5
EUV36	80.0	40.0	0.25	169.7	0.120	96.4	0.9	82.9
EUV20	80.0	40.0	0.5	166.4	0.116	95.2	0.2	81.7
EUV18	80.0	40.0	1.0	162.3	0.090	94.2	2.7	78.0
EUV26	100.0	40.0	0.0	134.0	0.138	96.2	1.5	83.4
EUV25	100.0	40.0	0.25	160.7	0.137	91.8	1.2	86.1
EUV37	100.0	40.0	0.5	160.0	0.112	92.0	0.6	78.3
EUV38	100.0	40.0	1.0	159.6	0.109	92.3	2.9	76.8
EUV27	120.0	40.0	0.0	137.4	0.157	92.3	3.3	77.4
EUV34	120.0	40.0	0.25	146.7	0.122	91.6	1.4	71.1
EUV24	120.0	40.0	0.5	156.1	0.122	87.5	0.7	72.9
EUV35	120.0	40.0	1.0	149.9	0.111	89.8	0.	75.1
EUV33	160.0	40.0	0.	120.4	0.177	82.4	1.33	57.6
EUV39	160.0	40.0	0.25	139.7	0.158	84.6	1.2	60.9
EUV40	160.0	40.0	0.50	145.7	0.152	80.7	3.2	61.5
EUV41	160.0	40.0	1.0	148.4	0.155	77.5	1.2	59.2

Table S2. Experimental parameters of valsartan-loaded Eudragit RLPO nanoparticles examined in in vitro dissolution studies, the measured average particle sizes and polydispersity indexes.

Sample ID	Eudragit RLPO quantity (mg)	valsartan quantity (mg)	PVA conc. (%)	Mean size by intensity (%)	PDI
EUV58	160.0	40.0	0.0	134.4	0.174
EUV59	160.0	40.0	0.0	136.2	0.177
EUV60	160.0	40.0	0.0	136.7	0.195
EUV61	160.0	40.0	0.0	132.3	0.180
EUV65	160.0	40.0	0.0	133.9	0.199
EUV67	160.0	40.0	0.0	129.9	0.181
EUV51	160.0	40.0	1.0	150.2	0.164
EUV52	160.0	40.0	1.0	149.2	0.135
EUV53	160.0	40.0	1.0	154.6	0.175
EUV54	160.0	40.0	1.0	155.3	0.156
EUV55	160.0	40.0	1.0	153.1	0.157
EUV66	160.0	40.0	1.0	155.2	0.184