Article

Supplementary Materials: Utilization of the Drug–Polymer Solid Dispersion Obtained by Ball Milling as a Taste Masking Method in the Development of Orodispersible Minitablets with Hydrocortisone in Pediatric Doses

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Table S1. The dosage of HT in children, with regard to the possibility of using conventional tablets and designed ODMTs [38].

Age range	**Single dose* [mg] (3 times per day)**	**Dosage available in conventional tablets**		The number of ODMTs given to the child (dose 0.5 mg)
	0.13 mg/kg b.w.			
	0.27 mg/kg b.w.	10 mg	20 mg	
0- 1 month of life	0.5-0.7	-	-	1-2
	1.0-1.5	-	-	2-3
2-12 month of life	0.7-1.3	-	-	1-3
	1.5-2.7	¼ tab.	-	3-5
2-4 year	1.7-2.3	¼ tab.	-	4-5
	3.5-4.8	½ tab.	¼ tab.	7-9
5-7 year	2.5-3.2	¼ tab.	¼ tab.	5-7
	5.2-6.6	½ tab.	¼ tab.	10-13

*The smallest effective single dose of HT (0.13 mg/kg of body weight and 0.27 mg/kg of body weight) administered orally were considered based on the daily dose 0.4-0.8 mg/ kg of body weight.

Table S2. Mean HT sample concentration (n=6) of each sample point after oral administration of F1, F2 and reference products A and B.

Concentration [ng/mL]	F1	F2	Ref.A	Ref.B
$C_{0.5}$	6.57 ± 0.6	11.00 ± 2.7	20.00 ± 3.0	19.87 ± 2.1
C_1	36.20 ± 1.5	63.33 ± 1.2	72.30 ± 3.4	71.54 ± 2.0
C_2	50.60 ± 2.5	81.00 ± 2.6	85.60 ± 2.2	85.70 ± 2.6
C_4	37.60 ± 1.1	62.50 ± 1.8	61.43 ± 2.0	68.25 ± 1.3
C_8	12.74 ± 1.4	23.47 ± 2.6	17.78 ± 2.6	16.73 ± 2.7

* Mean concentration of HT measured in 0.5; 1; 2; 4 and 8 h.

Table S3. HT each sample concentration of each sample point (0.5; 1; 2; 4 and 8h) after oral administration of F1, F2 and reference products A and B.

F1						
Concentration [ng/mL]	**1**	**2**	**3**	**4**	**5**	**6**
$C_{0.5}$	5.82	5.72	5.82	6.82	6.98	6.90
C_1	38.10	37.90	5.72	36.20	34.20	35.12
C_2	47.89	53.05	7.20	52.10	48.17	53.25
C_4	38.50	35.85	6.82	37.54	38.65	36.78
C_8	10.65	13.53	6.90	12.75	14.23	13.68
F2						
Concentration [ng/mL]	**1**	**2**	**3**	**4**	**5**	**6**
$C_{0.5}$	11.54	14.52	11.85	10.95	10.87	6.25
C_1	62.87	62.54	63.94	63.64	65.24	61.74
C_2	84.12	78.18	79.85	81.58	83.97	78.68
C_4	59.45	63.11	61.80	64.25	64.21	62.16
C_8	19.10	22.08	24.04	26.12	25.75	23.70
Ref. A						
Concentration [ng/mL]	**1**	**2**	**3**	**4**	**5**	**6**
$C_{0.5}$	18.85	19.41	25.58	20.07	18.15	17.25
C_1	70.56	71.84	77.74	74.85	70.24	68.54
C_2	84.98	87.88	88.23	82.79	85.27	84.46
C_4	62.45	59.15	64.64	61.52	59.75	61.08
C_8	17.87	19.65	20.51	14.23	19.34	15.09
Ref. B						
Concentration [ng/mL]	**1**	**2**	**3**	**4**	**5**	**6**
$C_{0.5}$	17.54	19.92	19.78	23.41	18.18	20.40
C_1	68.42	70.84	72.45	74.25	72.68	70.58
C_2	89.03	85.02	83.56	82.23	88.30	86.08
C_4	70.52	68.40	67.48	68.25	66,61	68.22
C_8	17.62	13.54	17.76	20.41	13,63	17.40