

## Supplementary information

### **Enhanced Stability and Compatibility of Montelukast and Levocetirizine in a Fixed-Dose Combination Monolayer Tablet**

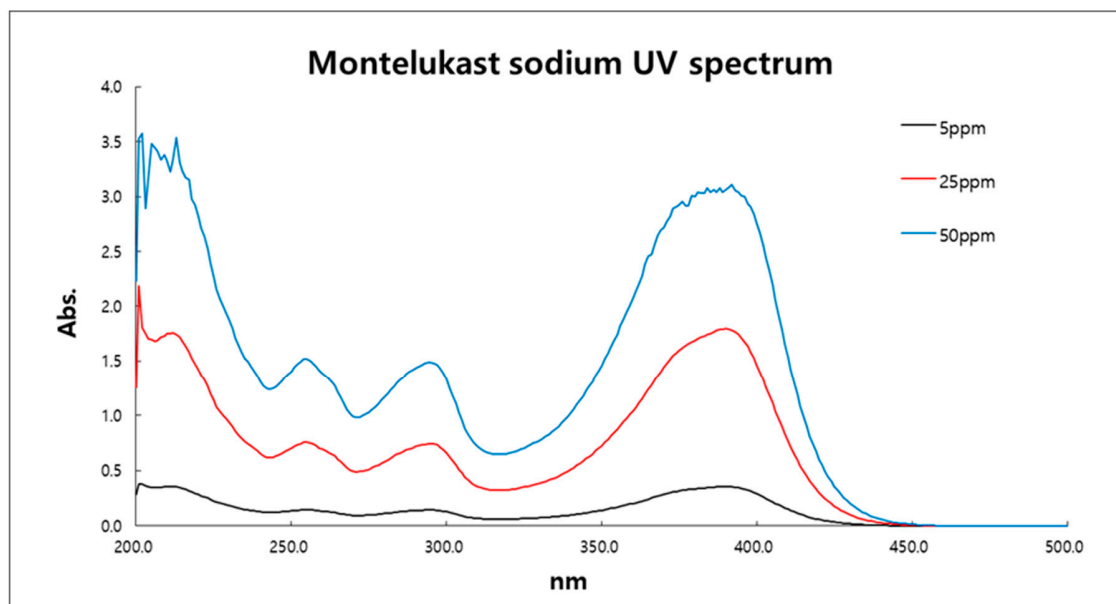
Tae Han Yun<sup>1</sup>, Moon Jung Kim<sup>1</sup>, Jung Gyun Lee<sup>1</sup>, Kyu Ho Bang<sup>1,\*</sup> and Kyeong Soo Kim<sup>1,\*</sup>

<sup>1</sup> Department of Pharmaceutical Engineering, Gyeongsang National University, 33 Dongjin-ro, Jinju 52725, Republic of Korea

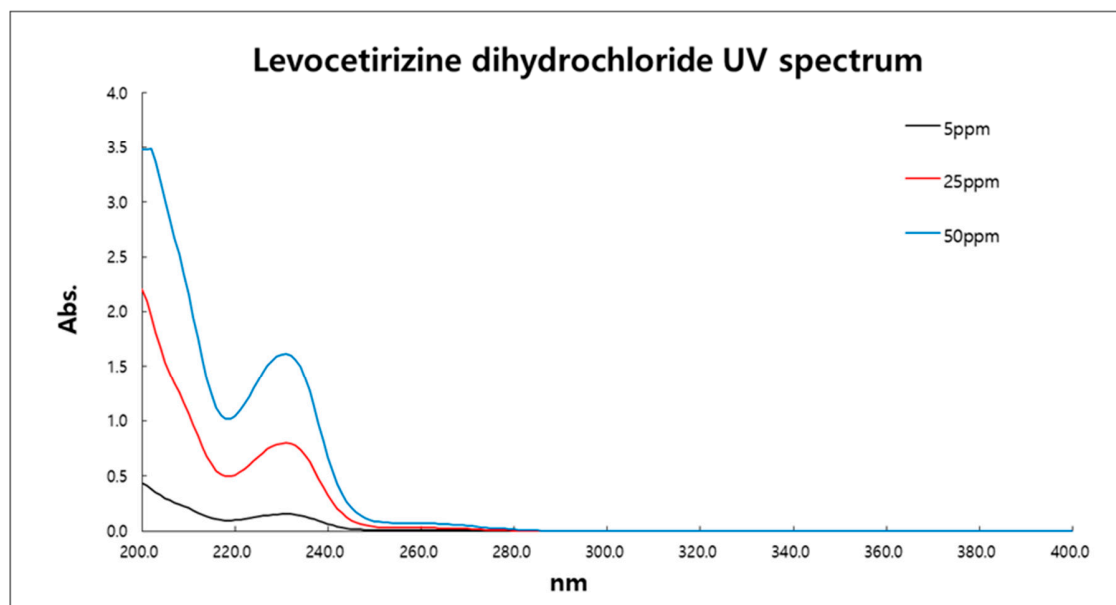
\*Corresponding author: Kyeong Soo Kim, Prof. Dr.  
Tel: +82-55-772-3391  
Fax: +82\_55-772-3399  
E-mail: [soyoyu79@gnu.ac.kr](mailto:soyoyu79@gnu.ac.kr)

\*Co-corresponding author: Kyu Ho Bang, Prof. Dr.  
Tel: +82-772--3396  
Fax: +82-772-3399  
E-mail: [khbang0095@gnu.ac.kr](mailto:khbang0095@gnu.ac.kr)

**(A)**



**(B)**



**Figure. S1.** UV Spectrum of (A) Montelukast and (B) Levocetirizine.

**Table S1.** Mechanical properties of initial F3 and F4 tablets.

Parameters	F3	F4
Mass variation (mg)	352.1 ± 2.2	355.3 ± 3.7
Hardness (KP)	8.5 ± 0.4	8.2 ± 0.8
Friability (%)	0.11 ± 0.04	0.10 ± 0.05
Disintegration time (s)	103 ± 16	110 ± 18
Content uniformity (MTL)	6.1	5.8
Content uniformity (LCZ)	7.4	8.2