Supporting Information

Simultaneous quantification of teneligliptin hydrobromide and metformin hydrochloride: An improved HPTLC method with implementation of Plackett-Burman design

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Table S1. Nominal values and peak areas in linearity experiment of TH and MH (n=6)

Sr. No.	MH			TH		
	Conc. (ng/band)	Peak area (Mean±SD)	%RSD	Conc. (ng/band)	Peak area (Mean±SD)	%RSD
1	100	884.80±07.60	0.80	4	1811.50±20.34	1.12
2	200	1519.70±16.84	1.10	8	1825.70±19.52	1.06
3	300	2201.00±23.48	1.06	12	1836.00±20.52	1.11
4	400	2920.80±29.68	1.01	16	1847.00±22.05	1.19
5	500	3312.70±34.23	1.03	20	1859.10±23.69	1.27
6	600	3869.10±43.61	1.12	24	1865.91±20.42	1.09
7	700	4862.40±56.84	1.16	28	1875.60±20.88	1.11
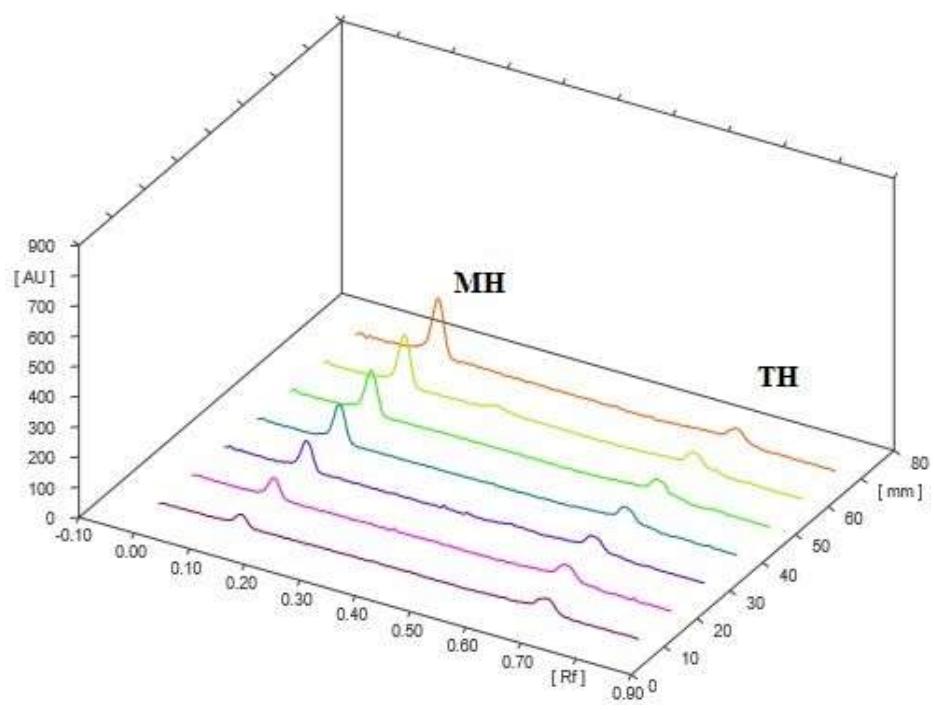
Figure S1: Overlay linearity chromatogram of TH and MH 4-28 ng/band and 100-700 ng/band, respectively

MH

y = 6.3369x + 261.03
R² = 0.9915

Peak Area

Concentration (ng/band)

- Series1
- ·········· Linear (Series1)

TH

y = 2.6412x + 1803.6
R² = 0.993

Peak Area

Concentration (ng/band)

- Series1
- ·········· Linear (Series1)

(a)

(b)
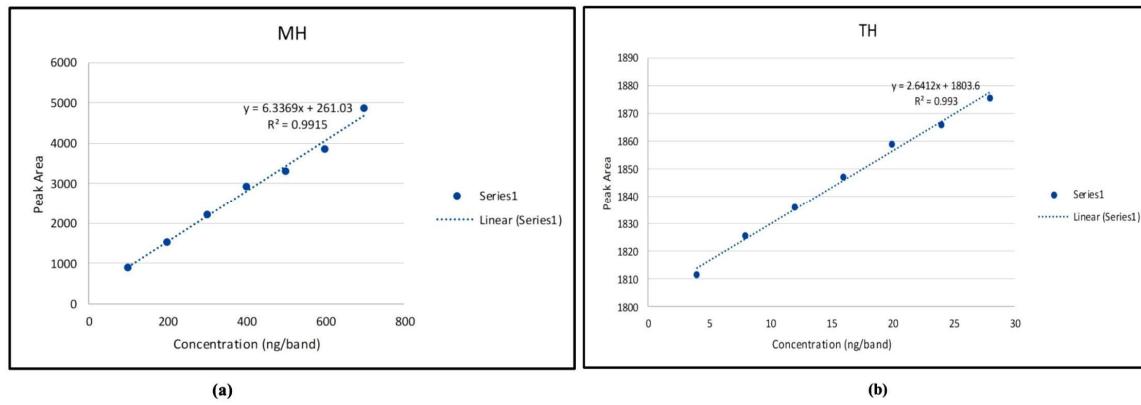
Figure S2: Calibration curve (a) Metformin (100-700 ng/band) and (b) Telenigliptin (4-28 ng/band)