

Supplementary Materials

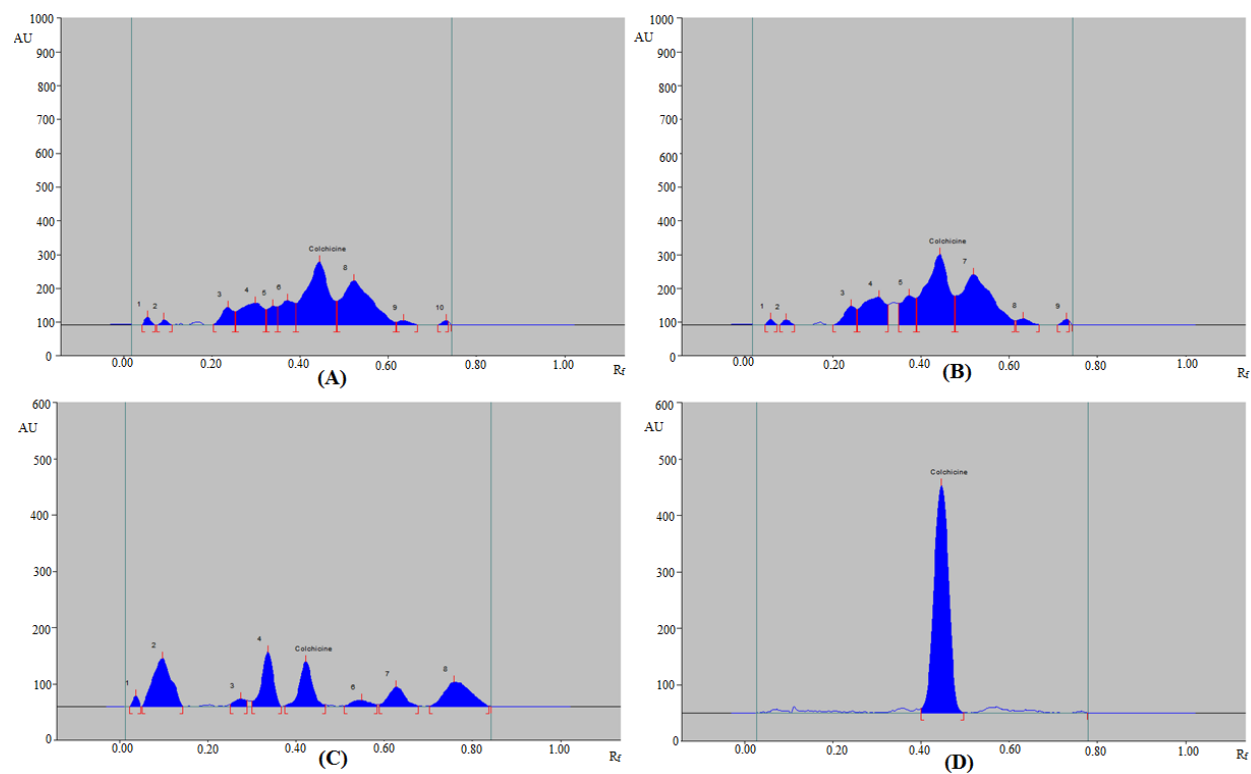


Figure S1. Representative chromatograms of CLH in (A) Egyptian seed extract, (B) Indian seed extract, (C) Unani formulation, and (D) allopathic formulation obtained using regular normal-phase HPTLC approach.

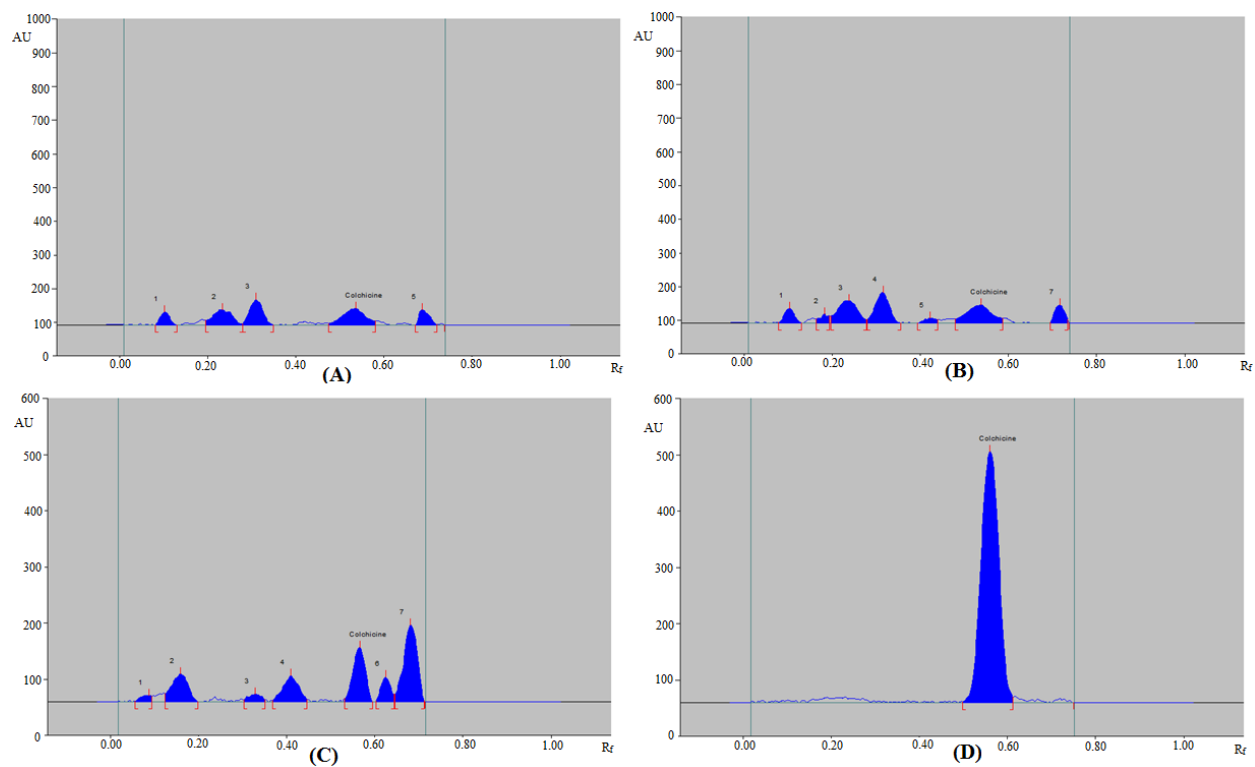


Figure S2. Representative chromatograms of CLH in (A) Egyptian seed extract, (B) Indian seed extract, (C) Unani formulation, and (D) allopathic formulation obtained using greener reversed-phase HPTLC approach.

Table S1. Application of the regular normal-phase HPTLC and the greener reversed-phase HPTLC approaches in the determination of CLH in methanolic extracts of Egyptian and Indian *C. autumnale* seeds, allopathic formulation, and Unani formulation produced by traditional and ultrasonication procedures (mean \pm SD; n = 3).

Samples	Traditional extraction	Ultrasonication-based extraction
	Amount of CLH (% w/w) using normal-phase HPTLC	
<i>C. autumnale</i> (Egyptian)	1.74 \pm 0.09	1.89 \pm 0.10
<i>C. autumnale</i> (Indian)	2.39 \pm 0.11	2.55 \pm 0.13
Allopathic formulation	12.45 \pm 0.84	12.61 \pm 0.91
Unani formulation	0.48 \pm 0.01	0.55 \pm 0.02
	Amount of CLH (% w/w) using reversed-phase HPTLC	
<i>C. autumnale</i> (Egyptian)	2.34 \pm 0.12	2.61 \pm 0.13
<i>C. autumnale</i> (Indian)	2.90 \pm 0.14	3.19 \pm 0.16
Allopathic formulation	13.27 \pm 0.92	15.11 \pm 0.97
Unani formulation	1.37 \pm 0.04	1.58 \pm 0.05