Formulation and characterization of lipid nanocarriers encapsulating steroidal alkaloids of tomato and evaluation of potential anticancer activity in an in vitro model

Contents:
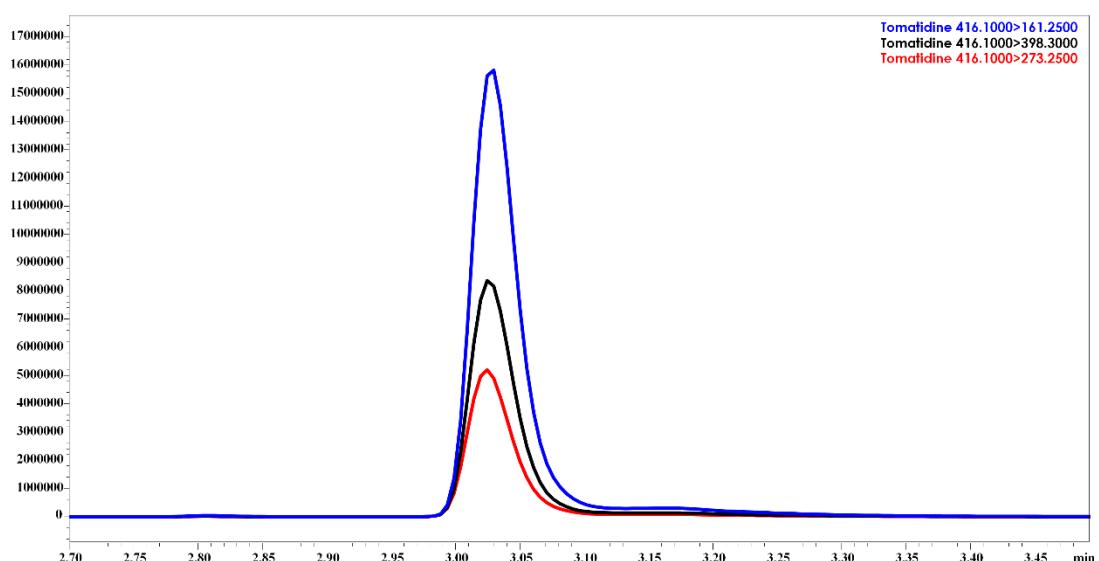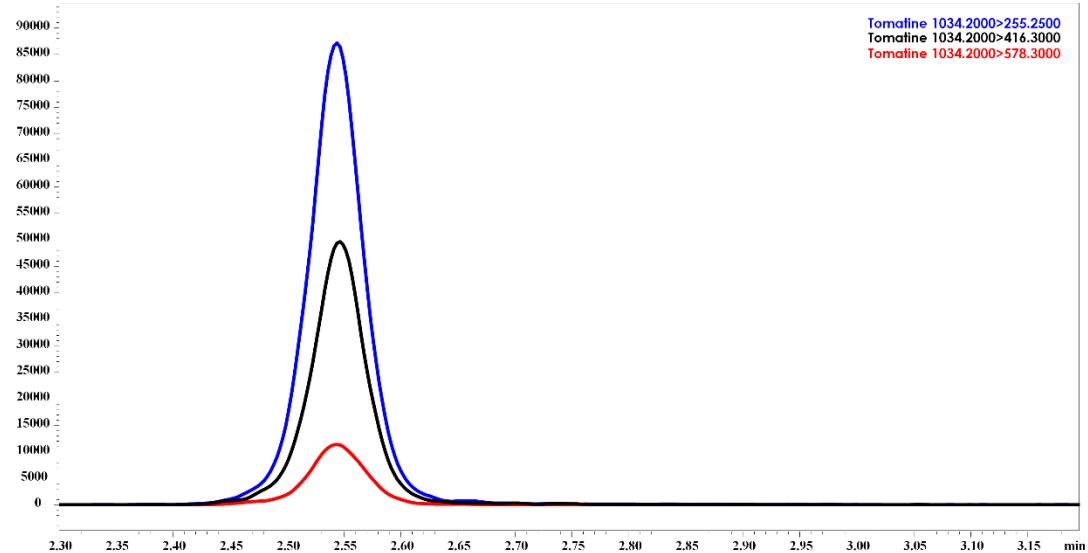
Figure SX1. MRM transition of α-Tomatine (up) and Tomatidine (down).

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Table S1. Method validation parameters for quantitation of α-TM and TD.

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Parameters	Tomatine		Tomatidine	
Intercept	12.794		0.1429	
Slope	7.0E-04		1.10E-06	
Correlation coefficient (R^2)	≥ 0.9994		≥ 0.9995	
LOD (ng mL^{-1})	2.53		0.11	
LOQ (ng mL^{-1})	0.83		0.36	
Intraday (n = 3)	Precision (RSD%)	Accuracy (Er%)	Precision (RSD%)	Accuracy (Er%)
LQC	2.7	94.3	2.1	102.7
MQC	0.3	93.5	0.2	92.9
HQC	1.1	100.4	1.1	93.8
Interday (n = 3)	Precision (RSD%)	Accuracy (Er%)	Precision (RSD%)	Accuracy (Er%)
LQC	1.8	100.9	0.6	99.3
MQC	0.2	96.4	2.0	98.7
HQC	0.8	94.7	0.6	97.3

LOD: 3.3 × (standard deviation of the response/slope of calibration curve); LOQ: 10 × (standard deviation of the response/slope of calibration curve); RSD, relative standard deviation (SD × 100/Mean); Low (LQC), Medium (MQC) and High (HQC) Quality Controls.

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