

Supporting Information, Tables

Table S1: Current UPLC-MS/MS method parameter details

Method Parameters	Experimental Conditions
Column	Waters BEH C18 (100 mm×2.1 mm, 1.7 μ m)
Mobile Phase (v/v)	ACN: 0.002 M ammonium acetate (50:50)
Flow rate (mL.min ⁻¹)	0.5
Injection Volume (μ L)	5.0
Column backpressure (psi)	7325
Column temperature (°C)	30
Capillary voltage (kV)	4.0
RF (V)	2.5
Extractor (V)	3.0
Source Temperature (°C)	145
Desolvation temperature (°C)	450
Cone gas flow (L.Hr ⁻¹)	50
Desolvation gas flow (L.Hr ⁻¹)	900
LM1 resolution	13
HM1 resolution	14
LM2 resolution	13
HM2 resolution	14

Table S2. Details of MS/MS parameters for studied analytes

Sl. No.	Compounds	MRM Transition (<i>m/z</i>)	Mode of Ionization	Dwell time (min)	Cone Voltage (V)	Collision Energy(V)
1	NER	557.09; 512.02; 111.92	ES+	0.05	50.0	26.0
2	NRN	273.11;152.954;146.97	ES+	0.05	45.0	26.0
3	IMB (I.S.)	494.52; 394.14; 217.10	ES+	0.05	35.0	18.0

Table S3. Data showing extraction recovery and matrix effect

Compound	Nominal Concentration (ng.mL ⁻¹)	Extraction Recovery, (n=6)		Matrix effect, (n=6)		
		Mean, %	RSD, %	Mean, %	RSD, %	% Matrix effect
NER	100(LQC)	85.81	1.16	85.86	0.66	14.13
	500(MQC)	86.45	1.69	89.95	3.18	10.12
	1000(HQC)	88.21	1.17	88.60	3.24	11.46
NRN	100(LQC)	87.09	1.59	86.92	0.18	13.07
	500(MQC)	85.32	1.43	90.29	4.05	9.61
	1000(HQC)	89.44	0.73	88.96	1.21	11.03
IS	10	86.91	1.88	86.86	3.03	13.16

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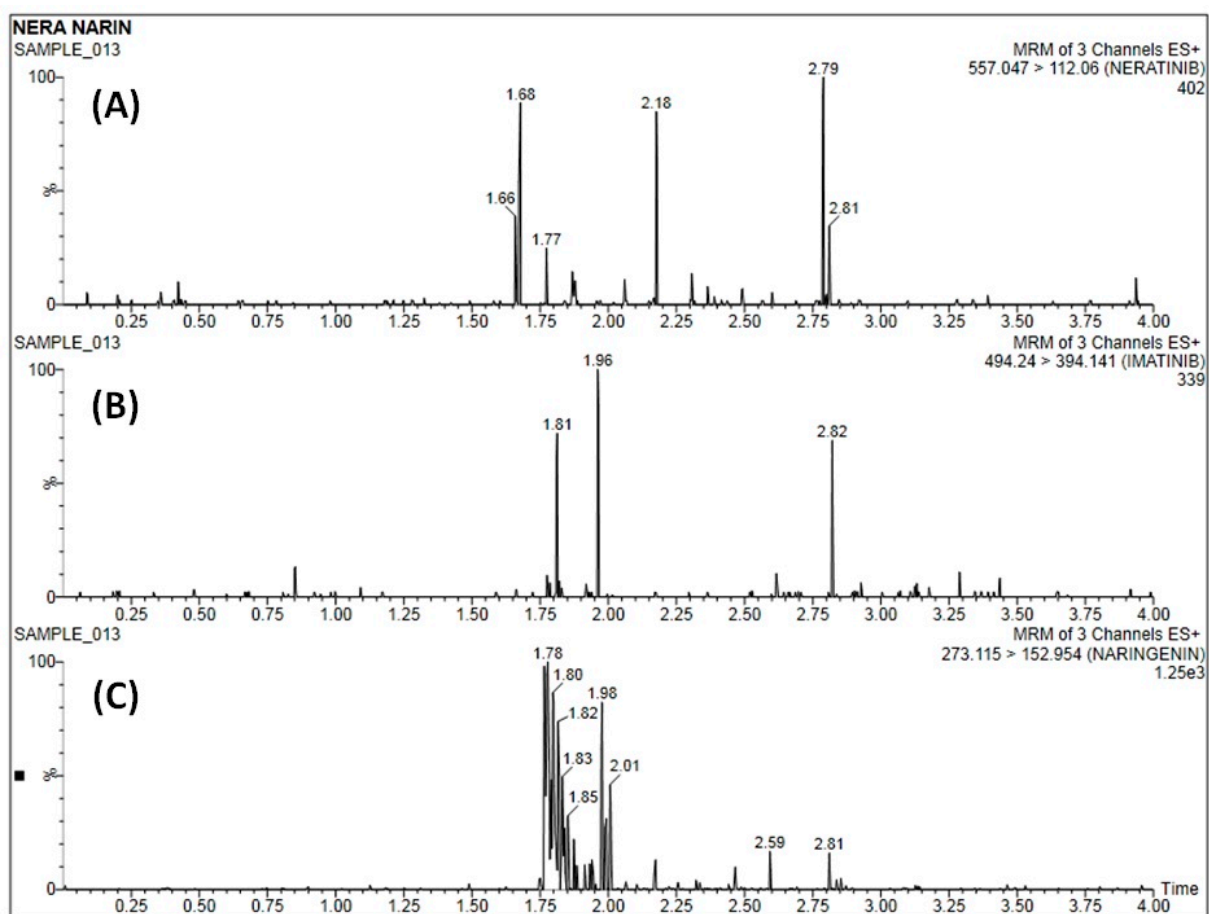


Figure. S1. Representative MRM chromatograms of blank plasma samples of (A) NER, (B) I.S. and (C) NRN at 80 ng.mL⁻¹ concentration

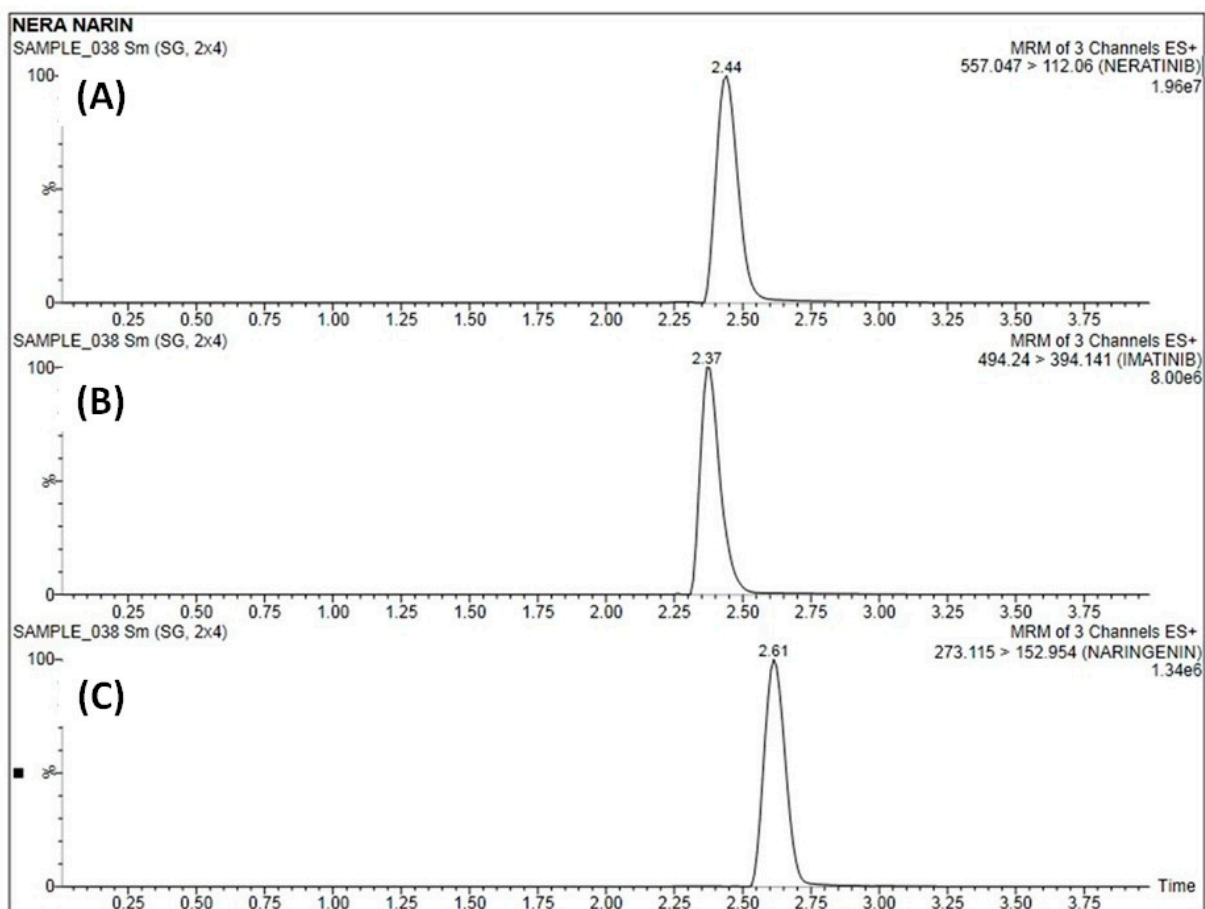


Figure S2. Representative MRM chromatograms of plasma samples spiked with (A) NER, (B) IS, and (C) NRN at 80 ng.mL⁻¹ concentration