



# Supplementary Information

## Ultra-Performance Liquid Chromatographic Method for Simultaneous Quantification of HIV Non-Nucleoside Reverse Transcriptase Inhibitors and Protease Inhibitors in Human Plasma

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**Table S1.** Summary of the evaluation of the calibration models

Weighting factor	Regression parameters (± 95% CI)	Analyte							
		Nevirapine	Indinavir	Saquinavir	Amprenavir	Atazanavir	Efavirenz	Ritonavir	Lopinavir
unweighted	<i>b</i>	0.2801(±0.0018)	0.0590(±0.0058)	0.5362(±0.0058)	0.3958(±0.0045)	0.1945(±0.0019)	0.3964(±0.0026)	0.1424(±0.0043)	0.3921(±0.0027)
	<i>a</i>	-0.0046(±0.0034)	-0.0032(±0.0117)	-0.0360(±0.0111)	-0.0232(±0.0086)	-0.0069(±0.0036)	-0.0171(±0.0051)	-0.0084(±0.0083)	-0.0045(±0.0053)
	<i>r</i>	0.9999	0.9993	0.9982	0.9994	0.9990	0.9970	0.9996	0.9998
	Σ%RE	282.08	847.89	689.77	749.57	308.97	468.13	602.93	526.48
1/x	<i>b</i>	0.2772(±0.0022)	0.0573(±0.0077)	0.5229(±0.0077)	0.3852(±0.0061)	0.1924(±0.0024)	0.3898(±0.0036)	0.1393(±0.0055)	0.3883(±0.0039)
	<i>a</i>	+0.0043(±0.0043)	+0.0024(±0.0148)	+0.0057(±0.0148)	+0.0102(±0.0116)	-0.0001(±0.0048)	+0.0039(±0.0071)	+0.0013(±0.0105)	+0.0118(±0.0074)
	<i>r</i>	0.9999	0.9990	0.9993	0.9992	0.9998	0.9996	0.9995	0.9997
	Σ%RE	-9.73x10 <sup>-13</sup>	0.5812	-0.0112	-0.1373	-0.0870	-0.0777	-0.0404	180.73
1/x <sup>0.5</sup>	<i>b</i>	0.2785(±0.0019)	0.0581(±0.0065)	0.5291(±0.0065)	0.3900(±0.0051)	0.1934(±0.0021)	0.3930(±0.0029)	0.1407(±0.0047)	0.3846(±0.0031)
	<i>a</i>	+0.0022(±0.0037)	+0.0009(±0.0125)	-0.0055(±0.0124)	+0.0018(±0.0097)	-0.0021(±0.0039)	-0.0021(±0.0057)	-0.0012(±0.0091)	+0.0119(±0.0059)
	<i>r</i>	0.9999	0.9992	0.9995	0.9993	0.9999	0.9998	0.9995	0.9994
	Σ%RE	60.453	198.18	169.70	172.67	80.032	123.22	140.02	146.40
1/x <sup>2</sup>	<i>b</i>	0.2753(±0.0028)	0.0551(±0.0137)	0.5033(±0.0137)	0.3751(±0.0122)	0.1880(±0.0061)	0.3764(±0.0095)	0.1353(±0.0097)	0.3661(±0.0126)
	<i>a</i>	+0.0050(±0.0054)	+0.0031(±0.0263)	+0.0127(±0.0264)	+0.0138(±0.0235)	+0.0014(±0.0115)	+0.0087(±0.0183)	+0.0027(±0.0185)	+0.0255(±0.0242)
	<i>r</i>	0.9999	0.9980	0.9975	0.9991	0.9987	0.9970	0.9986	0.9920
	Σ%RE	-7.69x10 <sup>-13</sup>	-0.1124	0.0223	-0.1201	0.1056	-0.0055	-0.2544	0.1210
1/y	<i>b</i>	0.2772(±0.0022)	0.0572(±0.0077)	0.5226(±0.0077)	0.3848(±0.0061)	0.1924(±0.0024)	0.3898(±0.0036)	0.1393(±0.0055)	0.3852(±0.0037)
	<i>a</i>	+0.0043(±0.0043)	+0.0022(±0.0149)	+0.0045(±0.0149)	+0.0009(±0.0117)	-0.0003(±0.0046)	+0.0029(±0.0069)	+0.0011(±0.0106)	+0.0160(±0.0071)
	<i>r</i>	0.9999	0.9990	0.9993	0.9991	0.9998	0.9997	0.9995	0.9995
	Σ%RE	2.7721	37.493	24.403	22.223	8.7711	23.953	14.721	68.802
1/y <sup>0.5</sup>	<i>b</i>	0.2784(±0.0019)	0.0581(±0.0065)	0.5291(±0.0065)	0.3900(±0.0051)	0.1934(±0.0021)	0.3930(±0.0029)	0.1407(±0.0047)	0.3886(±0.0031)
	<i>a</i>	+0.0021(±0.0037)	+0.0007(±0.0124)	-0.0066(±0.0124)	+0.0006(±0.0097)	-0.0021(±0.0039)	-0.0028(±0.0056)	-0.0014(±0.0091)	+0.0099(±0.0058)
	<i>r</i>	0.9999	0.9992	0.9995	0.9993	0.9999	0.9998	0.9995	0.9997
	Σ%RE	65.752	244.04	190.79	206.62	84.691	139.56	153.37	193.47
1/y <sup>2</sup>	<i>b</i>	0.2751(±0.0029)	0.0552(±0.0134)	0.5035(±0.0133)	0.3742(±0.0122)	0.1879(±0.0061)	0.3770(±0.0093)	0.1354(±0.0096)	0.3709(±0.0099)
	<i>a</i>	+0.0051(±0.0056)	+0.0030(±0.0256)	+0.0115(±0.0256)	+0.0138(±0.0233)	+0.0012(±0.0117)	+0.0076(±0.0178)	+0.0025(±0.0184)	+0.0212(±0.0191)
	<i>r</i>	0.9999	0.9984	0.9977	0.9991	0.9986	0.9972	0.9987	0.9943
	Σ%RE	1.2901	18.121	22.193	8.6132	12.693	21.683	12.273	68.224
Test of homoscedasticity	<i>F</i> <sub>exp</sub>	1,376.49	1,405.79	1,454.06	779.97	1,821.94	1,089.13	1,199.08	1,895.21

*F*<sub>tab</sub> (5, 5, 0.95) = 5.05.

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