

TABLE S1 Samples, RT-PCR and next-generation sequencing results

Sample	Strain ^a	Group/ Subtype/ CRF ^a	Viral load (copies/ml) ^a	Origin ^c	RT-PCR result				Accession number			Nucleotide identity of GenBank sequence and sequence obtained by NGS (%) ^a
					Set 1	Set 2	Set 3	Set 4	GenBank/ EMBL/ DDBJ ^a	ENA (this study) ^d		
										Run 1	Run 2	
Virus strains - HIV-1												
Strain #1	92UG037	A	nd	UCL	+++	+	+++	+	U51190	ERS100441	ERS163954	99.4
Strain #2	98TZ017	C	nd	NIBSC	+++	+++	+++	+++	AF286235	ERS100442	ERS163955	99.3
Strain #3	94UG114	D	nd	NIBSC	+++	+++	+++	+++	U88824	ERS100443	ERS164035	99.3
Strain #4	93BR020	F	nd	UCL	+++	++	+++	+++	AF005494	ERS100444	ERS163957	99.0
Strain #5	YBF30	N	nd	NIBSC	+++	+++	+++	+++	AJ006022	ERS100445	ERS163958	99.1
Strain #6	MVP5180	O	nd	NIBSC	+++	++	+++	+++	L20571	ERS100446	ERS164036	98.8
Strain #7	nd	O	nd	UCL	+++	++	+++	+++	nd	ERS100447	ERS163960	nd
Strain #8	nd	CRF01_AE	nd	UCL	++	+	++	+	nd	ERS100448	ERS163961	nd
Strain #9	X1870	CRF14_BG	nd	NIBSC	+++	++	++	+	nd	ERS100449	ERS163962	nd
Primary isolates - HIV-1												
Primary isolate #1	nd	C	nd	UCL	+++	++	+++	+++	nd	ERS100450	ERS163963	nd
Primary isolate #2	nd	D	nd	UCL	+++	+	+++	+++	nd	ERS100451	ERS163964	nd
Plasma samples												
Plasma #1 - HIV-1	nd	B	3,000	UCLH	+++	+	+	+	nd	ERS100452	ERS163965	nd
Plasma #2 - HIV-1	nd	C	30,000	UCLH	+++	+	+	+	nd	ERS100453	ERS163966	nd
Plasma #3 - HIV-1	nd	B	100,000	UCLH	+++	+	+	+	nd	ERS100454	ERS163967	nd
Plasma #4 - HIV-1	nd	A	300,000	UCLH	+++	+	+	+	nd	ERS100455	ERS163968	nd
Plasma #5 - HIV-2	nd	nd	180,000	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #6 - HIV-2	nd	nd	1,077	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #7 - HIV-2	nd	nd	454	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #8 - HIV-2	nd	nd	112	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #9 - CMV	nd	nd	340	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #10 - CMV	nd	nd	440	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #11 - CMV	nd	nd	450	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #12 - CMV	nd	nd	390	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #13 - HCV	nd	nd	0 ^b	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #14 - HCV	nd	nd	46 ^b	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #15- HCV	nd	nd	5,142,560	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #16 - HCV	nd	nd	10,582,400	UCLH	-	-	-	-	nd	nd	nd	nd

Plasma #17 - negative	nd	nd	0	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #18 - negative	nd	nd	0	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #19 - negative	nd	nd	0	UCLH	-	-	-	-	nd	nd	nd	nd
Plasma #20 - negative	nd	nd	0	UCLH	-	-	-	-	nd	nd	nd	nd

^a nd, not determined.

^b IU/ml.

^c NIBSC, National Institute for Biological Standards and Control at the Health Protection Agency. UCL, University College London.

UCLH, University College London Hospitals NHS Foundation Trust.

^d ENA accession numbers for two independent sequencing runs are shown.