

HIV-1 Subtype Panel (20 Isolates) - for research only

February 2018

Subtype	Isolate	Lab-ID ^a	Cultivation ^b	Env	Gag	Pol	Tropism (geno2pheno) ^c	Tropism (phenotype) ^d	Charakterization	Origin ^e
Group M										
A	92UG029	A1	CBL	A	A*	A	X4 (FPR 0.5%)	X4 (si)	Isolate from Uganda; AY713407 ; WHO Network for HIV Isolation and Characterization. <i>AIDS Res Hum Retroviruses</i> 10:1359-1368, 1994	NIH
A	00KE_KER2008[#]	A2	CEMx174 M7 R5	A	A*	A	u. (FPR 16.6%)	Dual (si)	Isolate from Kenya; AF457052; Brown BK et al, <i>J Virol</i> 79:6089-6101, 2005	NIH
B	92TH026	B1	CBL	B	B*	B	R5 (FPR 86.1%)	R5 (nsi)	Isolate from Thailand; U08802 (env, 1-1682); U86581 (gag, 1-727); WHO Network for HIV Isolation and Characterization. <i>AIDS Res Hum Retroviruses</i> 10:1359-1368, 1994	NIH
B	90TH_BK132	B2	CEMx174 M7 R5	B	B*	B	X4 (FPR 0.2%)	X4 (si)	Isolate from Thailand; AY173951; Michael NL et al, <i>J Clin Microbiol</i> 37:2557-2563, 1999; Vahey M et al, <i>J Clin Microbiol</i> 37:2533-2537, 1999	NIH
C	92BR025	C1	CBL	C	C*	C	R5 (FPR 38.4%)	R5 (nsi)	Isolate from Brazil; U52953 ; WHO Network for HIV Isolation and Characterization. <i>J Virol</i> 70:1651-1667, 1996	NIH
C	99ET_14	C2	CEMx174 M7 R5	C	C*	C	R5 (FPR 78.1%)	R5 (nsi)	Isolate from Ethiopia; AY255825; Brown BK et al, <i>J Virol</i> 79:6089-6101, 2005	NIH
D	92UG021	D1	CBL	D	A*	D	X4 (FPR 0%)	X4 (nsi)	Isolate from Uganda; U27399 (env, 1-2806), AF009396 (pol, 1-1176), U86532 (gag, 1-725); WHO Network for HIV Isolation and Characterization. <i>J Virol</i> 70:1651-1667, 1996	NIH
D	92UG035	D2	CBL	D	A*	A	X4 (FPR 8.5%)	R5 (nsi)	Isolate from Uganda; AF009399 (pol, 1-1173), AY669755 (env, 1-2562), U86535 (gag, 1-727); WHO Network for HIV Isolation and Characterization. <i>J Virol</i> 70:1651-1667, 1996	NIH
D	92UG024	D3	CBL	D	D*	D	X4 (FPR 0.1%)	X4 (si)	Isolate from Uganda; U08726 (gag, 1-727), AF009397 (pol, 1-1175), U08805 (env, 1-2552); WHO Network for HIV Isolation and Characterization. <i>J Virol</i> 70:1651-1667, 1996	NIH

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CRF01_AE	92TH022	E1	CBL	E*	A*	A	u. (FPR 13%)	R5 (nsi)	Isolate from Thailand; U09131 (env, 1-2830), AF009392 (pol, 1-1176), U86578 (gag, 1-729); WHO Network for HIV Isolation and Characterization. <i>AIDS Res Hum Retroviruses</i> 10:1327-1343, 1994	NIH
F	93BR029	F1	CBL	F*	B*	B	R5 (FPR 21.8%)	R5 (nsi)	Isolat from Brazil ; AF005495 ; Gao F et al, <i>J Virol</i> 72:5680-5698, 1998	NIH
F	93BR020	F2	CBL	F*	F*	F	X4 (FPR 0.7%)	Dual (si)	Isolate from Brazil; AF005494 ; WHO Network for HIV Isolation and Characterization. <i>J Virol</i> 70:1651-1667, 1996	NIH
G	RU570	G	CBL	G		G	R5 (FPR 42.5%)	R5 (nsi)	Isolate from Russia; U08368 (env, 1-1335), DQ234256 (pol, 1-1680); Bobkov A et al, <i>AIDS</i> 8:1649-1655, 1994	NIH
G/H	VI525	G/H	CEMx174 M7 R5	G*	H*	G/H	R5 (FPR 37.5%)		Isolate from Gabon; U09665 (env, 1-2604); L11792 (gag, 1-1471); Janssens W et al, <i>AIDS Res Hum Retroviruses</i> . 10:877-879, 1994	NIBSC
H	VI557	H	PM1	H	H*	H	X4 (FPR 8.5%)		Isolate from Zaire; U09666 (env, 1-888); L11793 (gag, 1-1468); Janssens W et al, <i>AIDS Res Hum Retroviruses</i> 10:877-879, 1994	NIBSC
CRF02_AG	01CM. 0005BBY	AG1	CEMx174 M7 R5	A	A*	G/A	R5 (FPR 41.6%)	R5 (nsi)	Isolate from Cameroon; AY371123; Brown BK et al, <i>J Virol</i> 79:6089-6101, 2005	NIH
CRF02_AG	01CM. 0008BBY	AG2	CEMx174 M7 R5	A	A*	G/A	u. (FPR 15.6%)	R5 (nsi)	Isolate from Cameroon; AY371124; Brown BK et al, <i>J Virol</i> 79:6089-6101, 2005	NIH
Group N										
	YBF 30	N	CEMx174 M7 R5	N	N*	N	R5 (FPR 20.9%)		Isolate from Cameroon; FB675251; Simon F et al, <i>Nat Med</i> 9:1032-1037, 1998	NIBSC
Group O										
	MVP5180	O1	CBL	O*	O*	O*	X4 (FPR 0.2%)	Dual (si)	Isolate from Cameroon; L20571; Gürtler LG et al, <i>J Virol</i> 68:1581-1585, 1994	NIH
	CA-9	O2	PM1	O	O*	O*	X4 (FPR 7.4%)		Isolate from Cameroon; X96522 (env, 1-2631); X92524 (gag, 1-400); X78476 (pol 1-280); Nkengasong et al, <i>AIDS</i> 8:1405-1414, 1994	NIBSC

Abbreviations

^a **Lab-ID** ...internal laboratory ID-number, **does not represent sub-subtypes** (e.g. A1/A2, F1/F2)

^b **Cultivation**

CBL ...primary cord blood lymphocytes

PM1 ...human T cell line (cells express CXCR4 and CCR5)

CEMx174 M7 R5 ...hybrid cell line of human B and T lymphoblasts (cells express CXCR4 and CCR5)

^c **Tropism (geno2pheno)**

FPR ...false positive rate

u. ...Tropism is unpredictable, if the FPR is between 10% and 20% (www.geno2pheno.org)

^d **Tropism (phenotype)**

nsi ...non-syncytium inducing

si ...syncytium inducing

^e **Origin**

NIH ...virus strain obtained from „AIDS Research and Reference Reagent Program”, Division of AIDS, NIAID, NIH, USA

NIBSC ...virus strain obtained from “Programme EVA Centre for AIDS Reagents”, NIBSC, UK

* ...these sequences were obtained from Genbank®

...isolate 00KE_KER2008 (internal Lab-ID A2) was erroneously listed as 00KE_KER2018 in previous versions of this table

Viruses were cultivated on cells, supernatants were inactivated by heat (60°C for 60 minutes) and diluted in HIV-negative plasma to a concentration of about 100,000 HIV-1 RNA copies/ml. Precise concentrations (HIV-1 RNA copies/ml) are provided with delivery.

These samples should be regarded as potentially hazardous to health and should be used and discarded according to your own laboratory's safety procedures.