



EXATYPE[™]
SANGER

JOB RESULTS

Job Details

Analysis date: **2023-03-28** - 08:56 am

Job name: **analysehiv update pdf run**

Total samples: **9**

Internal ID: **1725-0977-7375-126**

Job Status: **Completed**

Part 1 - Job overview

Name: analysehiv update pdf run

Analysis date: 2023-03-28 08:56

Product: Sanger HIV

Job status: Completed

Sequencing platform: CE













Job ID: 1725-0977-7375-126

Samples: 9



Controls: 2

Assay: Thermo Fisher (with Integrase)

1.1 - Samples overview

	Sample name	Exatype sample ID	Pass/fail PRRT	Pass/fail IN
1	A1	1725-0977-7375-130	 Failed	 Failed
2	A2	1725-0977-7375-133	 Passed	 Passed
3	A3	1725-0977-7375-136	 Passed	 Passed
4	A4	1725-0977-7375-139	 Passed	 Failed
5	D1N	1725-0977-7375-142	 Passed	 Passed
6	S1	1725-0977-7375-144	 Passed	N/A
7	S2	1725-0977-7375-146	 Passed	N/A

1.2 - Controls overview

	Control name	Exatype control ID	Region	Control status
1	V1cntrl_POS_IN	1725-0977-7375-148	IN	 Passed
2	V1cntrl_POS_PRRT	1725-0977-7375-150	PRRT	 Passed

Part 2 - Quality control

2.1 - Sequencing controls

Plate name: **Plate 1** +

Sample name: **V1cntrl_POS_IN**

Sample ID: **1725-0977-7375-148**

Plate ID: **1725-0977-7375-127**

Sample type: **Positive**

Region: **IN**

Status: **Passed**

	Locus	Position	Amino acid	Status
✓	IN	61	*	Present
✓	IN	74	M	Present
✓	IN	138	K	Present
✓	IN	140	S	Present
✓	IN	148	K	Present
✓	IN	156	*	Present
✓	IN	263	K	Present

Plate name: **Plate 1** +

Sample name: **V1cntrl_POS_PRRT**

Sample ID: **1725-0977-7375-150**

Plate ID: **1725-0977-7375-127**

Sample type: **Positive**

Region: **PRRT**

Status: **Passed**

	Locus	Position	Amino acid	Status
✓	PR	37	S	Present
✓	PR	41	*	Present
✓	RT	41	L	Present
✓	PR	54	M	Present
✓	RT	65	R	Present
✓	RT	68	*	Present
✓	PR	90	M	Present
✓	RT	103	N	Present
✓	RT	122	E	Present
✓	RT	181	C	Present
✓	RT	183	*	Present
✓	RT	184	V	Present
✓	RT	214	L	Present

2.2 - Warnings

2.2.1 - Contamination checks

Samples too similar to positive control

None detected

Samples too similar to selected lab strains

None detected

Samples too similar to other samples from this job

S2 S1

2.2.2 - Unusual mutation checks













Samples with excess APOBEC mutations

D1N

Samples with excess atypical mutations

D1N

Part 3 - Sample results

	Sample name	Exatype sample ID	Pass/fail PRRT	Pass/fail IN
1	A1	1725-0977-7375-130	 Failed	 Failed
2	A2	1725-0977-7375-133	 Passed	 Passed
3	A3	1725-0977-7375-136	 Passed	 Passed
4	A4	1725-0977-7375-139	 Passed	 Failed
5	D1N	1725-0977-7375-142	 Passed	 Passed
6	S1	1725-0977-7375-144	 Passed	N/A
7	S2	1725-0977-7375-146	 Passed	N/A

Name: A1

Analysis date: 2023-03-28 08:56

Product: **Sanger HIV**

Sample status: **Failed**

Sequencing platform: CE

Assay: Thermo Fisher (with Integrase)

Name: A2

Analysis date: 2023-03-28 08:56

 Product: **Sanger HIV**

 Sample status: **Completed**

Sequencing platform: CE

Exatype version: 2.7.4

 Assay: **Thermo Fisher (with Integrase)**

 Resistance algorithm: **Stanford HIVDB v9.4**

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	3TC	S	
	TDF	S	
NNRTI	DOR*	S	Mutations: [RT] V106I
	EFV*	S	
	ETR	S	
	NVP*	S	
	RPV	S	
PI	ATV/r	S	
	DRV/r	S	
	FPV/r	S	
	IDV/r	S	
	LPV/r	S	
	NFV	S	
	SQV/r	S	
	TPV/r	S	
INSTI	DTG	S	
	EVG	S	
	RAL	S	
	BIC	S	
	CAB	S	

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*The assay does not cover the entire reverse transcriptase gene region. Therefore, two potential drug-resistance scoring mutations - amino acid position 318 (scoring for DOR, EFV, and NVP) and position 348 (scoring for NVP) - are excluded from the drug-resistance interpretation.

Exatype sample ID: 1725-0977-7375-133

Name: A3

Analysis date: 2023-03-28 08:56

 Product: **Sanger HIV**

 Sample status: **Completed**

Sequencing platform: CE

Exatype version: 2.7.4

 Assay: **Thermo Fisher (with Integrase)**

 Resistance algorithm: **Stanford HIVDB v9.4**

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	3TC	S	
	TDF	S	
NNRTI	DOR*	S	Mutations: [RT] K103N
	EFV*	R	
	ETR	S	
	NVP*	R	
	RPV	S	
PI	ATV/r	S	
	DRV/r	S	
	FPV/r	S	
	IDV/r	S	
	LPV/r	S	
	NFV	S	
	SQV/r	S	
	TPV/r	S	
INSTI	DTG	S	
	EVG	S	
	RAL	S	
	BIC	S	
	CAB	S	

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Exatype sample ID: 1725-0977-7375-136

Name: A4

Analysis date: 2023-03-28 08:56

 Product: **Sanger HIV**

 Sample status: **Discordant**

Sequencing platform: CE

Exatype version: 2.7.4

 Assay: **Thermo Fisher (with Integrase)**

 Resistance algorithm: **Stanford HIVDB v9.4**

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	3TC	S	
	TDF	S	
NNRTI	DOR*	S	
	EFV*	S	
	ETR	S	
	NVP*	S	
	RPV	S	
PI	ATV/r	S	
	DRV/r	S	
	FPV/r	S	
	IDV/r	S	
	LPV/r	S	
	NFV	S	
	SQV/r	S	
	TPV/r	S	
INSTI	DTG	No data	
	EVG	No data	
	RAL	No data	
	BIC	No data	
	CAB	No data	

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Exatype sample ID: 1725-0977-7375-139

Name: D1N

Analysis date: 2023-03-28 08:56

 Product: **Sanger HIV**

 Sample status: **Completed**

Sequencing platform: CE

Exatype version: 2.7.4

 Assay: **Thermo Fisher (with Integrase)**

 Resistance algorithm: **Stanford HIVDB v9.4**

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	ABC	I	Mutations: [RT] M41L, [RT] D67N, [RT] L74I, [RT] M184I, [RT] T215C
	AZT	I	
	D4T	I	
	DDI	R	
	FTC	R	
	3TC	R	
	TDF	S	
NNRTI	DOR*	R	Mutations: [RT] L100V, [RT] K101H, [RT] K103N, [RT] V106I, [RT] V108I, [RT] E138A, [RT] V179F, [RT] Y181C, [RT] G190E, [RT] F227L, [RT] M230I
	EFV*	R	
	ETR	R	
	NVP*	R	
	RPV	R	
PI	ATV/r	I	Mutations: [PR] D30N, [PR] M46I, [PR] G48S, [PR] G73S
	DRV/r	S	
	FPV/r	I	
	IDV/r	I	
	LPV/r	I	
	NFV	R	
	SQV/r	R	
	TPV/r	S	
INSTI	DTG	I	Mutations: [IN] G163R, [IN] D232N, [IN] R263K
	EVG	I	
	RAL	I	
	BIC	I	
	CAB	I	

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Exatype sample ID: 1725-0977-7375-142

Name: S1

Analysis date: 2023-03-28 08:56

 Product: **Sanger HIV**

 Sample status: **Completed**

Sequencing platform: CE

Exatype version: 2.7.4

 Assay: **Thermo Fisher (with Integrase)**

 Resistance algorithm: **Stanford HIVDB v9.4**

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	ABC	R	Mutations: [RT] M41L, [RT] E44D, [RT] D67N, [RT] T69D, [RT] M184V, [RT] L210W, [RT] T215Y
	AZT	R	
	D4T	R	
	DDI	R	
	FTC	R	
	3TC	R	
	TDF	R	
NNRTI	DOR*	I	Mutations: [RT] A98G, [RT] G190A
	EFV*	R	
	ETR	I	
	NVP*	R	
	RPV	I	
PI	ATV/r	R	Mutations: [PR] M46I, [PR] F53L, [PR] I54V, [PR] V82A
	DRV/r	S	
	FPV/r	I	
	IDV/r	R	
	LPV/r	R	
	NFV	R	
	SQV/r	R	
	TPV/r	I	
INSTI	DTG	No data	
	EVG	No data	
	RAL	No data	
	BIC	No data	
	CAB	No data	

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Exatype sample ID: 1725-0977-7375-144

Name: S2

Analysis date: 2023-03-28 08:56

 Product: **Sanger HIV**

 Sample status: **Completed**

Sequencing platform: CE

Exatype version: 2.7.4

 Assay: **Thermo Fisher (with Integrase)**

 Resistance algorithm: **Stanford HIVDB v9.4**

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	ABC	R	Mutations: [RT] M41L, [RT] E44D, [RT] D67N, [RT] T69D, [RT] M184V, [RT] L210W, [RT] T215Y
	AZT	R	
	D4T	R	
	DDI	R	
	FTC	R	
	3TC	R	
	TDF	R	
NNRTI	DOR*	I	Mutations: [RT] A98G, [RT] G190A
	EFV*	R	
	ETR	I	
	NVP*	R	
	RPV	I	
PI	ATV/r	I	Mutations: [PR] M46I, [PR] F53L, [PR] V82A
	DRV/r	S	
	FPV/r	I	
	IDV/r	I	
	LPV/r	I	
	NFV	R	
	SQV/r	I	
	TPV/r	S	
INSTI	DTG	No data	
	EVG	No data	
	RAL	No data	
	BIC	No data	
	CAB	No data	

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Exatype sample ID: 1725-0977-7375-146