



EXATYPETM
SANGER

JOB RESULTS

Job Details

Analysis date: 2021-05-12 - 09:08 am

Job name: Run 4

Internal ID: 2224-4724-4673-387

Job Status: **Completed**

Part 1 - Job overview

Job name: Run 4













Analysis date: 2021-05-12 - 09:08 am

Assay: Thermo Fisher (with Integrase)


Pathogen: HIV

Job status: **Completed**

1.1 - Samples overview

	Sample name	Exatype sample ID	Pass/fail PRRT	Pass/fail IN
1	A1	222447244673391	 Failed	 Failed
2	A2	222447244673394	 Passed	 Passed
3	A3	222447244673397	 Passed	 Passed
4	A4	222447244673400	 Passed	 Failed
5	D1N	222447244673403	 Passed	 Passed
6	S1	222447244673405	 Passed	N/A
7	S2	222447244673407	 Passed	N/A

1.2 - Controls overview

	Control name	Exatype control ID	Region	Control status
1	V1cntrl_POS_IN	222447244673409	IN	 Passed
2	V1cntrl_POS_PRRT	222447244673411	PRRT	 Passed

Part 2 - Quality control overview

2.1 - Sequencing controls

Plate name: **Plate 1** +

Sample name: **V1cntrl_POS_IN**

Sample ID: **2224-4724-4673-409**

Plate ID: **2224-4724-4673-388**

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: **2224-4724-4673-411**

Plate ID: **2224-4724-4673-388**

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	222447244673391	 Failed	 Failed
2	A2	222447244673394	 Passed	 Passed
3	A3	222447244673397	 Passed	 Passed
4	A4	222447244673400	 Passed	 Failed
5	D1N	222447244673403	 Passed	 Passed
6	S1	222447244673405	 Passed	N/A
7	S2	222447244673407	 Passed	N/A

Sample name: **A1**

Sequencing platform: **Sanger**

Analysis date: **2021-05-12** - 09:08 am

Sample status: **Failed**

Pathogen: **HIV**

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

Sample name: **A2**

Exatype v2.6.2

 Sequencing platform: **Sanger**

 Resistance algorithm: **9.0**

 Analysis date: **2021-05-12 - 09:08 am**

 Pathogen: **HIV**

 Sample status: **Completed**

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

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	3TC	S	
	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	TDF	S	
NNRTI	ETR	S	Mutations: [RT] V106I
	RPV	S	
	DOR*	S	
	EFV*	S	
	NVP*	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: 2224-4724-4673-394

Sample name: **A3**

Exatype v2.6.2

 Sequencing platform: **Sanger**

 Resistance algorithm: **9.0**

 Analysis date: **2021-05-12 - 09:08 am**

 Pathogen: **HIV**

 Sample status: **Completed**

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

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	3TC	S	
	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	TDF	S	
NNRTI	ETR	S	Mutations: [RT] K103N
	RPV	S	
	DOR*	S	
	EFV*	R	
	NVP*	R	
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: 2224-4724-4673-397

Sample name: **A4**

Exatype v2.6.2

 Sequencing platform: **Sanger**

 Resistance algorithm: **9.0**

 Analysis date: **2021-05-12 - 09:08 am**

 Pathogen: **HIV**

 Sample status: **Discordant**

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

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	3TC	S	
	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	TDF	S	
NNRTI	ETR	S	
	RPV	S	
	DOR*	S	
	EFV*	S	
	NVP*	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: 2224-4724-4673-400

Sample name: **D1N**

Exatype v2.6.2

 Sequencing platform: **Sanger**

 Resistance algorithm: **9.0**

 Analysis date: **2021-05-12 - 09:08 am**

 Pathogen: **HIV**

 Sample status: **Completed**

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

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	3TC	R	Mutations: [RT] M41L, [RT] D67N, [RT] L74I, [RT] M184I, [RT] T215C
	ABC	R	
	AZT	I	
	D4T	I	
	DDI	R	
	FTC	R	
	TDF	I	
NNRTI	ETR	R	Mutations: [RT] L100V, [RT] K101H, [RT] K103N, [RT] V106I, [RT] V108I, [RT] E138A, [RT] V179F, [RT] Y181C, [RT] G190E, [RT] F227L, [RT] M230I
	RPV	R	
	DOR*	R	
	EFV*	R	
	NVP*	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] N232N, [IN] R263K
	EVG	I	
	RAL	I	
	BIC	I	
	CAB	I	

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Exatype sample ID: 2224-4724-4673-403

Sample name: **S1**

Exatype v2.6.2

 Sequencing platform: **Sanger**

 Resistance algorithm: **9.0**

 Analysis date: **2021-05-12 - 09:08 am**

 Pathogen: **HIV**

 Sample status: **Completed**

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

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	3TC	R	Mutations: [RT] M41L, [RT] E44D, [RT] D67N, [RT] T69D, [RT] M184V, [RT] L210W, [RT] T215Y
	ABC	R	
	AZT	R	
	D4T	R	
	DDI	R	
	FTC	R	
	TDF	R	
NNRTI	ETR	I	Mutations: [RT] A98G, [RT] G190A
	RPV	I	
	DOR*	I	
	EFV*	R	
	NVP*	R	
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	
INSTI	TPV/r	I	
	DTG	No data	
	EVG	No data	
	RAL	No data	
	BIC	No data	
	CAB	No data	

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Exatype sample ID: 2224-4724-4673-405

Sample name: S2

Exatype v2.6.2

Sequencing platform: Sanger

Resistance algorithm: 9.0

Analysis date: 2021-05-12 - 09:08 am

Pathogen: HIV

 Sample status: **Completed**

Assay: Thermo Fisher (with Integrase)

● Susceptible ● Intermediate ● Resistant ● No data

DRUG CLASS	DRUG	CALL ¹	MUTATIONS
NRTI	3TC	R	Mutations: [RT] M41L, [RT] E44D, [RT] D67N, [RT] T69D, [RT] M184V, [RT] L210W, [RT] T215Y
	ABC	R	
	AZT	R	
	D4T	R	
	DDI	R	
	FTC	R	
	TDF	R	
NNRTI	ETR	I	Mutations: [RT] A98G, [RT] G190A
	RPV	I	
	DOR*	I	
	EFV*	R	
	NVP*	R	
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: 2224-4724-4673-407