

Vela Diagnostics' ViroKey & Sentosa® FLEX for NGS and qPCR



One Instrument. Endless Possibilities.

Introducing workflow automation and flexibility using *Sentosa*® SX101

ViroKey SQ FLEX Solutions for Next-Generation Sequencing

Flexibility for Virology. Combine up to 4 assays in 1 NGS run. 4h hands-on time from sample to result.









Cost-Saving

- Allows multi-assay testing in a single run
- Reuse of reagents with no wastage
- Reagents stable for up to 10 freeze-thaw cycles
- Decrease turn-around & hands-on time
- Cost efficient implementation of low volume assays

Assay Compatibility



- HIV Genotyping & Resistance*
- HCV Genotyping & Resistance*
- CMV Genotyping & Resistance*
- HBV Genotyping & Resistance*

Targets

HIV: Reverse Transcriptase, Protease & Integrase gene regions, Subtypes A-K

HCV: NS5B, NS3A, NS5A; Genotyping for 1a, 1b, 2-6, Mutations for 1a, 1b, 3

CMV: UL54, UL97, UL56, UL51, UL27, UL 89

HBV: HBV Polymerase gene, Basal Core Promoter (BCP), Pre-core (pre-C), Genotypes: B, C, D, E, F, G and H

Workflow Efficiency

- No batching of samples required
- Able to extract up to 15 samples per run
- Automated validity check of tube and kit barcodes
- Automated data analysis and quality reporting, pathology- and drug resistance interpretation report
- System Control for quality and performance check
- Turn-around time: 2.5 days
- Hands-on time: 4 h

Assay Selection Flexibility

- Freedom to run up to 4 assays in one run
- Genotype and resistance information in a single test

Sample Types

- 730 µl Plasma for HIV, HCV, HBV, CMV
- 730 µl Serum for HCV, HBV

Ordering Information

Product Name	Item Number
ViroKey SQ FLEX HIV Primer Set (96)	300819
ViroKey SQ FLEX HCV Primer Set (96)	300820
ViroKey SQ FLEX HBV Primer Set (96)	300821
ViroKey SQ FLEX CMV Primer Set (96)	300822
ViroKey SQ FLEX Library Prep Reagents (4x16)	300823
Sentosa® SQ Virus Testing Solutions (4x24)	300775
Sentosa® SX Virus Total Nucleic Acid Plus Kit	300155

Sentosa® FLEX Solutions for qPCR

Flexibility for Immunosuppression Testing. Combine up to 4 assays in 1 PCR run. Automated from sample to result.









Cost-Saving

- Re-use of reagents (no wastage & batch independent)
- Reagents stable for up to 10 freeze-thaw cycles
- Allows multi-assay testing in a single run, reducing consumables and reagent wastage without batch dependence

Workflow Efficiency

- No batching of samples required
- Able to extract up to 46 clinical samples per run
- Automated validity check of tube and kit barcodes
- Automated data analysis and reporting
- Combine different sample materials in one run

Assay Selection Flexibility

- Freedom to assign up to 4 tests for each eluate
- Obtain up to 64 results from 4 tests in a single run

Assay Compatibility



- CMV Quant
- HSV1/2 Quant
- BKV Quant
- VZV Quant
- EBV Quant
- HHV6 Quant

Additional Controls Set Available

- Flexible batch sizes of 1 up to 72 reactions
- Supplementary 8x3 Controls Set containing 8 Positive Controls, 8 Negative Controls & 8 Extraction Controls available to match users' varying needs

Validated Sample Types

- Plasma
- Serum
- Swabs

- Whole Blood
- Urine
- CSF

Ordering Information

Product Name	Item Number for Pack Size 4x24	Item Number for Pack Size 4x48
Sentosa® SA CMV Quantitative PCR Test	300062	300625
Sentosa® SA EBV Quantitative PCR Test	300106	300627
Sentosa® SA VZV Quantitative PCR Test	300081	300675
Sentosa® SA HSV 1/2 Quantitative PCR Test	300233	300671
Sentosa® SA BKV Quantitative PCR Test	300088	300636
Sentosa® SA HHV6 Quantitative PCR Test	300184	300673
Sentosa® SX Virus Total Nucleic Acid Kit v2.0	300042	N/A
Sentosa® SX Whole Blood gDNA Kit	300252	N/A
Sentosa® SX FLEXtraction Kit (96)	300747	

The ViroKey Principle

Integrated Workflow Solution for PCR and NGS diagnostics pathways

The FLEX solutions offer the flexibility to run up to 4 assays in one run. Together with the reusable assay reagents, ViroKey and *Sentosa*® FLEX makes testing more efficient and potentially reduces the time to result and allows more parameters to be simultaneously handled on one automated platform.



Real-Time PCR Workflow

In the PCR workflow, the *Sentosa*® SX101 effortlessly performs sample extraction and proceeds to set-up samples in the Rotor-Disc 72 or downstream real-time PCR.

Features	Specifications
Throughput	Up to 72 reactions/run (Up to 288 reactions/day*)
Time to result	~ 4 hours/run
Runs/day	4 (last run with PCR o/n^)
Assay combinations	1 - 4 assays/run
Open channel capability	Yes
Primary tube handling capability (non-IVD)	Yes
Regulatory Status	CE-IVD
	*Based on 8-hour shift and assay dependent ^o/n= overnight



Next-Generation Sequencing (NGS) Workflow

In the NGS workflow, the *Sentosa*® SX101 executes sample extraction and NGS library preparation with ease, reducing technician hands-on time.

Features	Specifications
Throughput (assay dependent)	Up to 15 samples/run
Time to result	~ 2.5 days
Hands-on time	4 hours
Assay combinations	1 - 4 assays/run
Open channel capability	Yes
Regulatory Status	RUO

IVD: For *in-vitro* diagnostic use. Not for distribution in US. RUO: For research use only. Not for use in diagnostic procedures. Inclusive of all requisite licenses.

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