

Aptima® HIV-1 Quant Dx Assay

■ Excellent precision and sensitivity for HIV-1 detection and viral load monitoring.

Reliable quantitation. Deliver reliable, repeatable results with a robust test that accurately detects and monitors HIV-1.

Excellent Sensitivity and High Precision¹

Performance

LoD 12 copies/mL (3rd WHO International Standard)

LLoQ 30 copies/mL (Reaction volume: 0.5 mL plasma)

Linear Range 1.30 to 7.30 log₁₀ copies/mL

Accuracy Total error (TE) of 1 log₁₀ copies/mL

Mean Concentration (Log Copies/mL)	SD Total	CV% Total
1.80	0.16	9.10
2.37	0.17	7.34
2.47*	0.15	6.15
2.95	0.15	5.20
3.80	0.10	2.53
4.93	0.08	1.56
5.69	0.09	1.58
6.71	0.08	1.13



Assay precision provides confidence that increases in viral load are due to clinical changes with the patient, versus assay variation.²

Demand More From Your HIV-1 Assay

Product Design

Intended Use	HIV-1 detection, screening and viral load monitoring	Groups	M, N, O
Technology	Real-time transcription-mediated amplification (TMA)	Sample Types	Quantitative: Plasma Qualitative: Serum and Plasma
Target Region	pol/LTR	Sample Input Volume	Primary tube (PPT, ACD, EDTA, Serum, SST): 1.2 mL Secondary tube: 700 µL 240 µL with automated dilution factor

The Aptima® HIV-1 Quant Dx assay on the Panther® system combines assay performance and excellent automation for detection and viral load monitoring.



Sample-to-Result Within a Single Integrated Instrument

Key Automation Characteristics	
Random Access	No more batching; load samples with different test orders as they arrive Run HIV-1 with other assays at the same time
Primary Tube Processing	No need for aliquoting or manual sample transfer Tube flexibility: PPT, ACD, EDTA, Serum and SST tubes validated
Flexible Sample and Reagent Loading	Run multiple tests from a single sample No manual sample prep or barcode clips Automated barcode scanning of tubes allows positive sample identification
Rapid Turnaround Time with Stat Result Option³	First results in 2 hours, 41 minutes stat result option: ability to prioritize results
Automated QC Analysis	Levey-Jennings plots to track and trend controls
Low Sample Volume Option (240 µL) with Automated Dilution Factor	Specified dilution factor automatically applied versus manual calculations

Ordering Information

Item	Quantity	Catalog #
Aptima HIV-1 Quant Dx Assay Kit (1 assay box, 1 calibrator kit, 1 control kit)	100 tests	PRD-03565

Primary Tube Sampling

-  ✓ Plasma: EDTA, ACD, PPT
-  ✓ Serum and SST



Visit hologic.com/HIV for more information.

References: 1. Aptima HIV-1 Quant Dx assay, package insert AW-18107-001 Rev. 002, Hologic, Inc.; 2021. 2. Nair SV, Kim HC, Fortunko J, et al. Aptima HIV-1 Quant Dx—a fully automated assay for both diagnosis and quantification of HIV-1. *J Clin Virol.* 2016;77:46-54. 3. Panther®/Panther Fusion® System Operator's Manual AW-26055-001 Rev.001 (EN).

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