



# ULTRAGENE HIV-1

## QUAL & QUANT VIRAL LOAD ASSAYS

**RAPID & ULTRA SENSITIVE MOLECULAR  
TESTING FOR HIV-1**



Providing Lab Efficiency for Optimized  
Patient Monitoring

Research Use Only - Proprietary, ABL S.A.

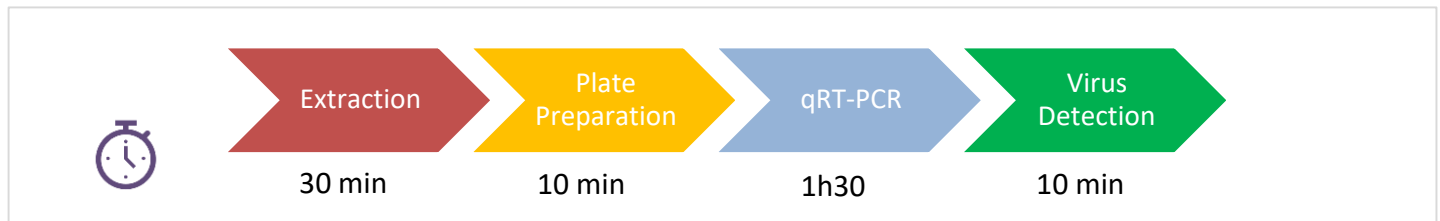
## THE SOLUTION

The **ULTRAGENE HIV-1 QUAL** & **QUANT** Viral Load Assays are fast and ultra-sensitive real-time PCR tests that provide qualitative detection and quantification of HIV-1 RNA or proviral DNA from plasma, serum, whole blood or dried blood spot samples.

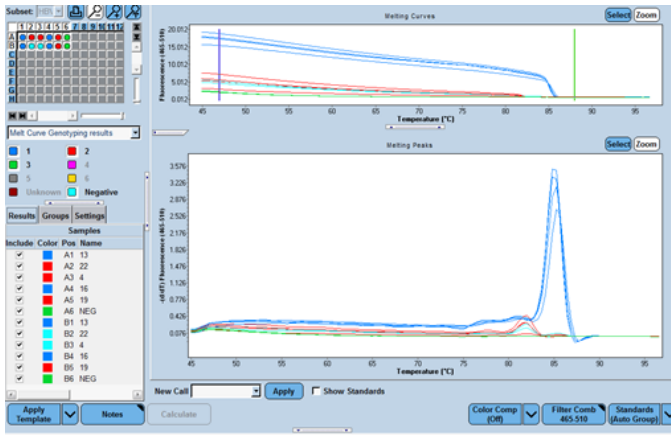
The **ULTRAGENE HIV-1 QUAL** & **QUANT** Viral Load Assays generate PCR amplicon of the reverse transcriptase HIV-1 gene which can be used as a reflex testing on positive samples for genotyping and drug resistance analyses of NRTIs and NNRTIs drugs.

## Intended uses

- Detection of acute infection
- Adherence monitoring
- Treatment monitoring
- Drug resistance assessment



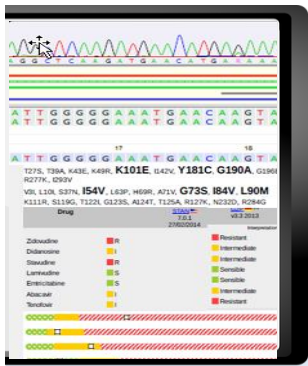
## QUAL ASSAY



**Negative**  
Viral load not detectable

**Positive => Viral load > 15 cp/mL**

**Reflex Genotyping Testing**



**GENOTYPING DRUG RESISTANCE**

**DEEPCHEK®-HIV RT/PROT & INT ASSAYS**

**EFFICIENCY**

**Amplicons ready for sequencing:**

- Genotyping, drug resistance...
- Time efficiency
- Cost efficiency
- Sample volume efficiency
- Patient does come twice at the lab

Research Use Only - Proprietary, ABL S.A.



## COMPOSITION



### FORMAT

- From 1 to 24 sample reactions per assay
- Format suited to 96 reactions is available

### CONTENT

- Real-time PCR enzyme
- Real-time PCR Master Mix
- HIV-1 RT amplification primers
- Water
- Calibrated positive controls (QUANT version only)



## PERFORMANCES



### LIMIT OF DETECTION

- Serum/Plasma samples: 15 cp/mL (95% CI 20-30)
- Dried Blood Spot: 400 cp/mL (95% CI 380-420)

### CHARACTERISTICS

- 500µL plasma/serum/whole blood
- Pan-genotypic
- Reproducibility >99%
- Covered positions: RT: 1-320

### EASY & RAPID

- 140 minutes run time
- Hands-on time: <30 min

### EFFICIENCY

- Cost-effective
- From 1 to 96 samples per run
- Reflex genotyping testing on RT/PROT/INT (using the DeepChek®-HIV assays), compatible with SANGER & Next Generation Sequencing CE-IVD software for genotyping analysis



Research Use Only - Proprietary, ABL S.A.

**REFERENCES & CONTACT**



**ULTRAGENE HIV-1 Viral Load QUAL Assay (RUO)**

- Up to 24 samples . . . . . K-17-UHIV24
- Up to 96 samples . . . . . K-17-UHIV96

**ULTRAGENE HIV-1 Viral Load QUANT Assay (RUO)**

- Up to 24 samples . . . . . K-17-UQTHIV24
- Up to 96 samples . . . . . K-17-UQTHIV96

**RELATED PRODUCTS**

- DeepChek®-HIV RT / PR Genotyping Assay (RUO) . . . . . K-16-H2-RTPR24
- DeepChek®-HIV INT Genotyping Assay (RUO) . . . . . K-17-H2-INT
- DeepChek®-HIV V3 Loop/Tropism Assay (RUO) . . . . . K-17-H2-V3
- DeepChek®-HIV Software (CE-IVD) . . . . . S-12-023 (HUS)
- ViroScore®-HIV / ViroScore®-HIV Premium Software (CE-IVD) . . . . . S-09-014 (VSH)

**ULTRAGENE Viral Load Assays (RUO) also available for: HCV, HBV, Tuberculosis**

**IMPROVE DISEASE MANAGEMENT**

**CONTACT**

- Advanced Biological Laboratories S.A.
- 17, rue des Jardiniers, L-1835 Luxembourg

- [contact@ablsa.com](mailto:contact@ablsa.com)
- <http://www.ablsa.com>
- TEL : (+352) 26 38 96 761
- FAX : (+352) 26 38 96 76 31

Research Use Only - Proprietary, ABL S.A.