

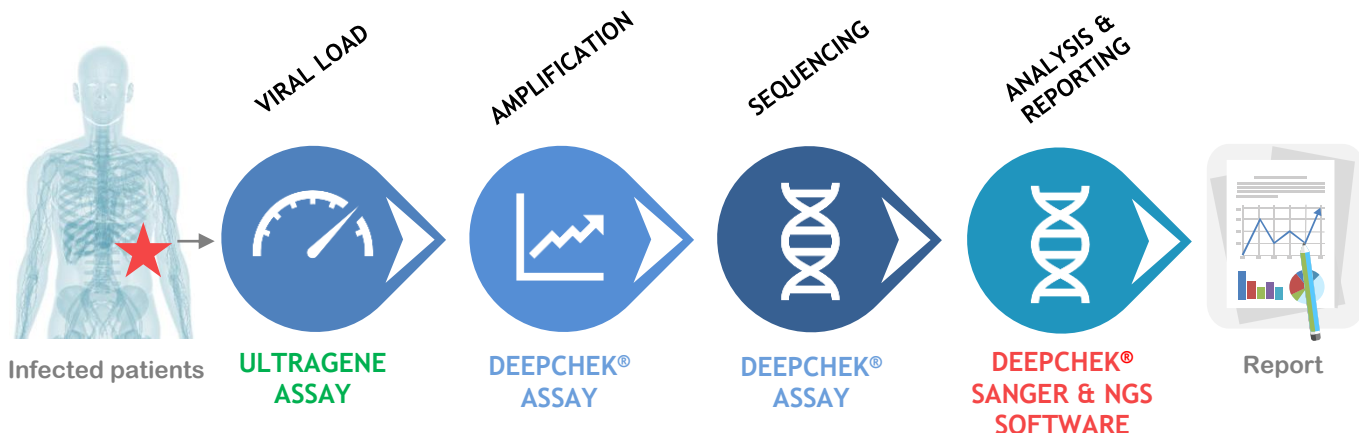
# PRODUCTS OVERVIEW



- **DEEPCHEK® ASSAY** > GENOTYPING
- **SOFTWARE** > ANALYSIS & INTERPRETATION
- **ULTRAGENE ASSAY** > VIRAL LOAD

## SOLUTIONS

## TECHNOLOGY & CONCEPT



## DEEPCHEK® ASSAYS AND SOFTWARE FOR HBV GENOTYPING



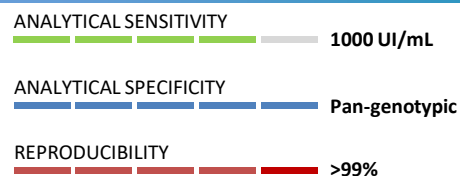
### FEATURES

- For SANGER & Next Generation Sequencing (NGS)
- Compatible with any Sanger or NGS platform
- CE-IVD software
- RUO Assays – ISO-9001 manufacturing
- Automated software workflow
- Genotyping
- Drug resistance interpretation
- Reporting
- Integration / LIS connectivity
- Services (customization, data import...)



### PERFORMANCES

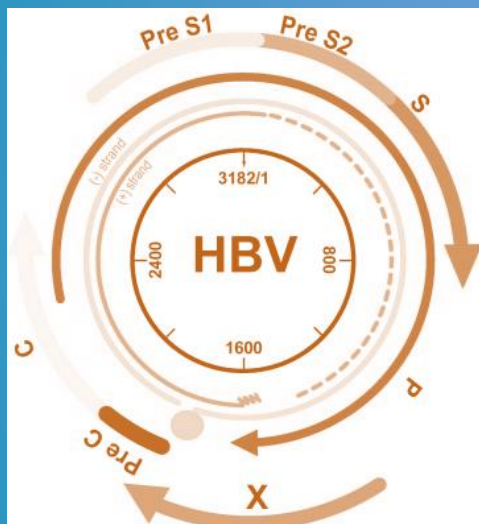
- 400 µL plasma/serum > 1000 UI/mL
- Protocols for low viral loads available
- Fully-automated bioinformatics pipeline



### AVAILABLE SOON

- Robot for workflow simplification
- CE-IVD of DeepChek® Assays

## DEEPCHEK®-HBV ASSAYS



### GENOTYPING & DRUG RESISTANCE

- DeepChek®-HBV RT Genotyping and DR Assay (K-17-B-RT)

### LIVER DISEASE PROGNOSIS

- DeepChek®-HBV Core/PreCore Assay (K-17-B-Core/PreCore)



- PCR reagents: primers, enzymes...
- Nested-PCR reagents (option): primers, enzymes...
- Sanger sequencing Primers
- Protocols for Sanger and NGS
- Sanger sequencing reagents (on-demand)
- NGS Library Prep reagents (on-demand)
- Software (Sanger and NGS) included

### Extraction



Extraction kit\*

### Amplification



Thermocycler



PCR  
Reagents

### Sequencing



Library prep  
kit



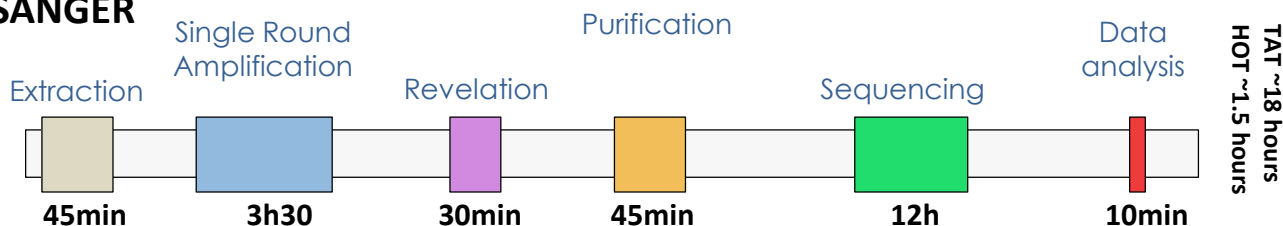
Sequencer

### Data analysis

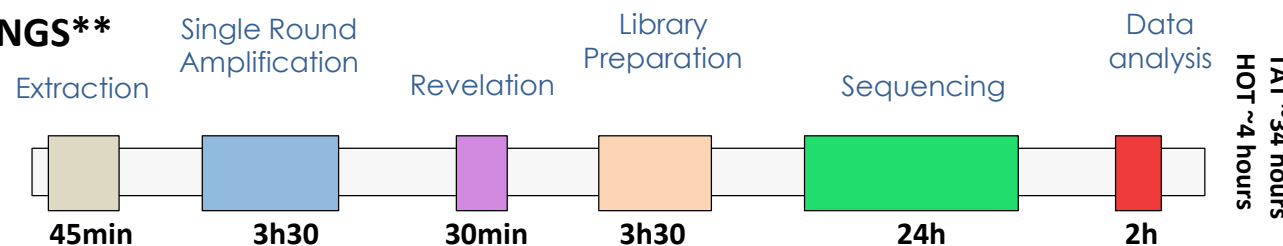


Downstream  
analysis software

### SANGER



### NGS\*\*

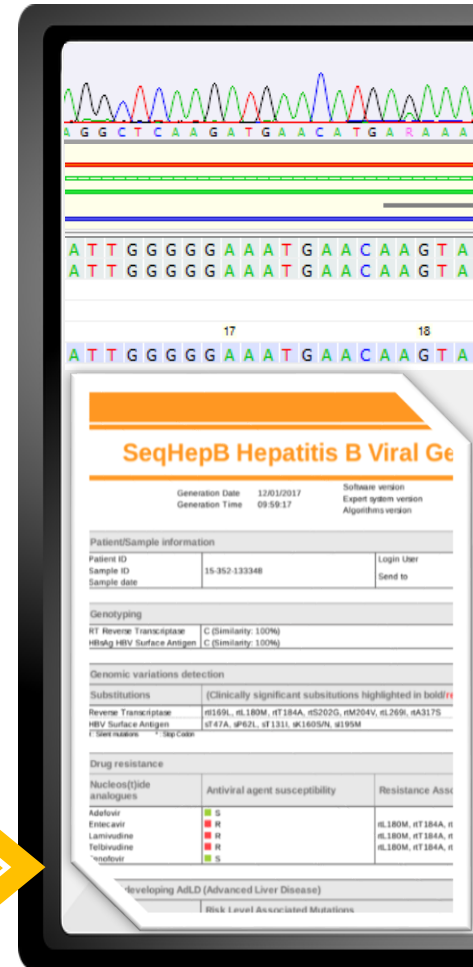
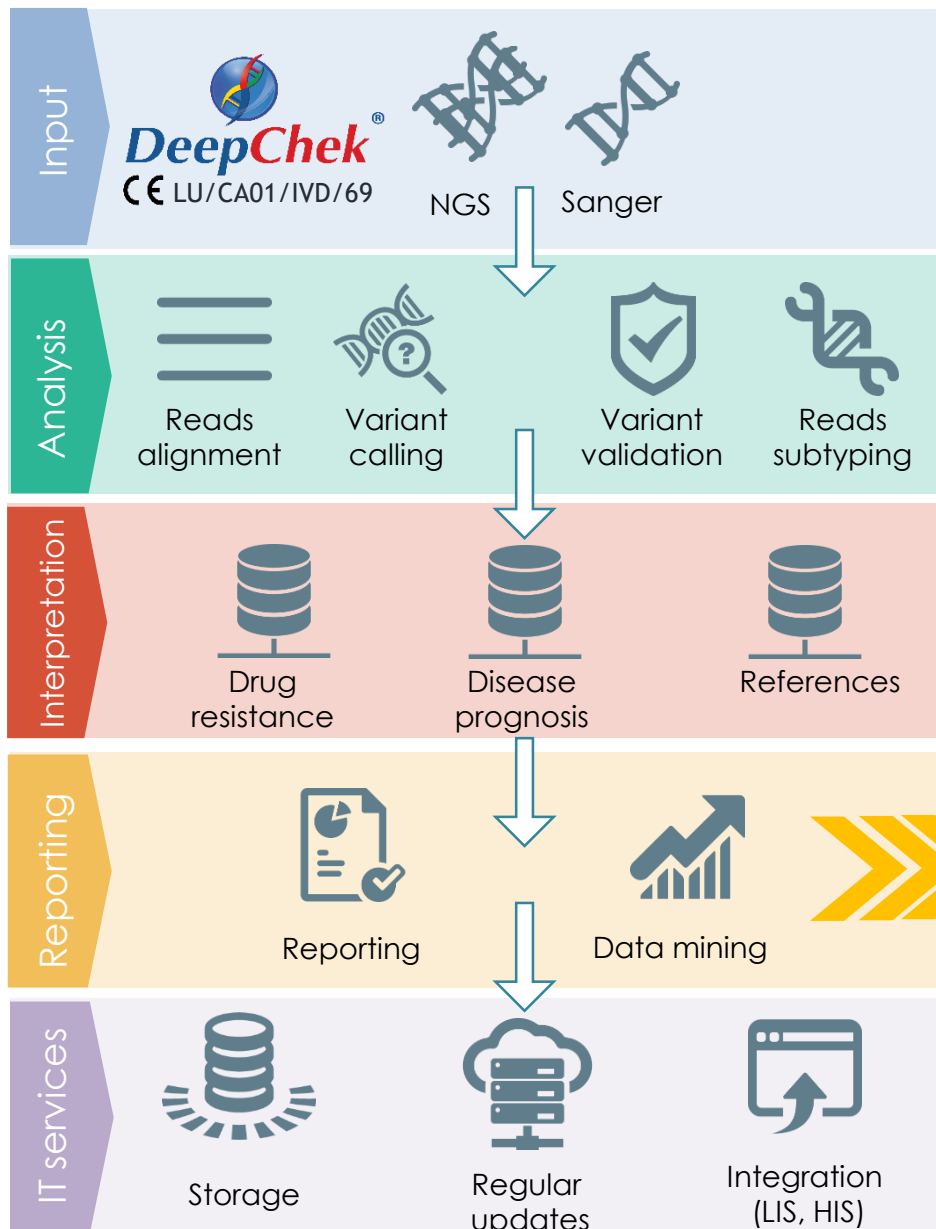


\* Several protocols available

\*\* Works on all NGS platforms (from 24 to 48 samples per run)

# DEEPCHEK®-HBV SOFTWARE

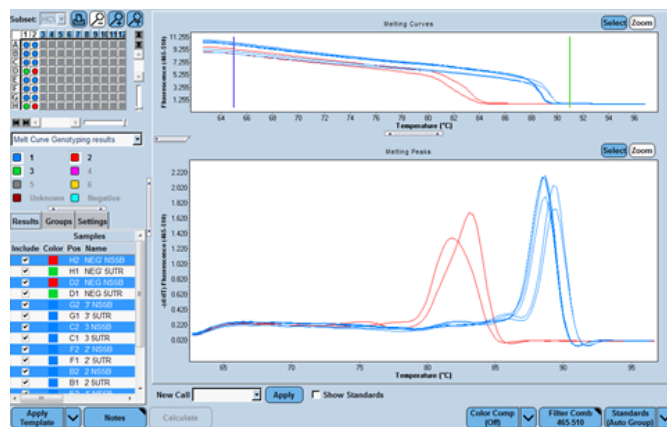
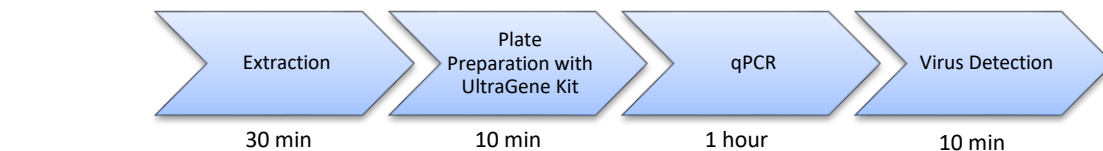
- RT + sAg + Core/PreCore + PreS1/S2 + URR + Whole Genome
  - Sanger or NGS
  - Inputs: AB1, FASTA, FASTQ, BAM...
  - Manual or automated base calling
  - Variant calling
  - Genotyping/Subtyping
  - Drug resistance through several up-to-date guidelines
- (including the Evivar Medial SeqHepB) database
  - Liver disease prognosis
  - Vaccine escape assessment
  - Reporting (routine diagnostics and research)
  - Integration with Laboratory or Hospital Information Systems (LIS / HIS)
  - Available through the Cloud or local servers



## ULTRAGENE-HBV

### qPCR in Disease Management

- Real-Time PCR allows for direct detection of the amount of virus DNA in the patient samples.



**Negative** => Viral load not detectable

**Positive** => Viral load > 20 UI/mL

**Reflex  
Genotyping  
Testing**

**ANALYTICAL SENSITIVITY** 20 UI/mL

**ANALYTICAL SPECIFICITY** Pan-genotypic

**REPRODUCIBILITY** >99%

**Efficiency**

**Amplicons ready for sequencing:**

- Genotyping, drug resistance...
- Time efficiency
- Cost efficiency
- Sample volume efficiency

## CONTACT INFORMATION



- 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

## ORDERING INFORMATION



- DeepChek®-HBV RT Genotyping and DR Assay
- DeepChek®-HBV Core/PreCore Assay
- UltraGene®-HBV Assay (RUO)
- DeepChek®-HBV Software (CE-IVD)

K-17-B-RT  
K-17-B-Core/PreCore  
To be determined  
S-12-023 (BUS)

**ALSO AVAILABLE:**

HIV, HCV

**AVAILABLE SOON:**

CMV, Influenza, Herpes, HPV,  
Tuberculosis, Microbiome