

# **DEEPCHEK®-HCV ASSAYS & SOFTWARE**

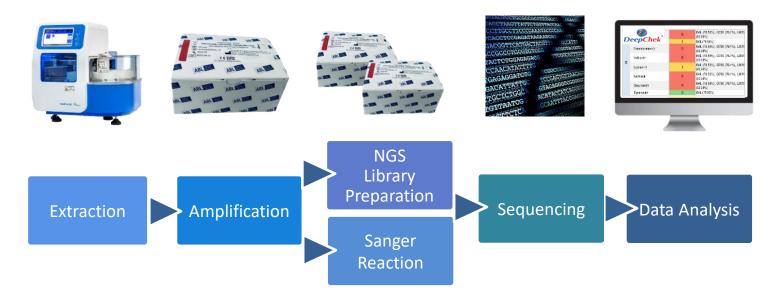
NS3 - NS5A - NS5B - Core - 5' UTR

A unique and complete portfolio for HCV genotyping through Sanger & Next Generation (NGS) sequencing

These assays are a unique line of products dedicated to HCV Genotyping and resistance determination through Sanger and NGS sequencing.

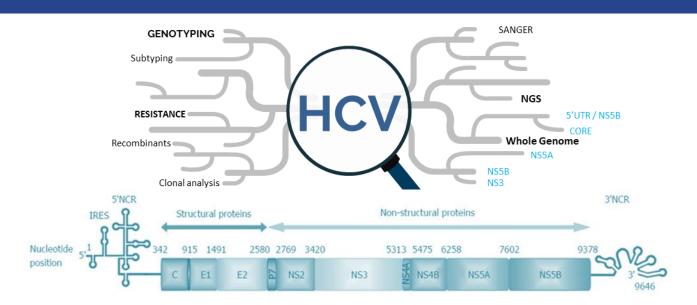
- DeepChek®-HCV NS5B + 5'UTR Genotyping Assay V3
   DeepChek®-HCV NS5A DR Assay V1
- DeepChek®-HCV NS5B + 5'UTR Genotyping Assay V2.x
   DeepChek®-HCV NS3 Genotyping and DR Assay V1.
- DeepChek®-HCV Core Genotyping Assay V1
- DeepChek®-HCV NS5B Genotyping and DR Assay V4.x

## Workflow overview





# PRODUCT OVERVIEW



### DeepChek®-HCV NS5B + 5'UTR

Genotyping Assay V3 (Reference 110C24)

- Viral Hepatitis C (HCV) genotyping and subtyping
- Multiplex
- Including Nested PCR for NS5B
- 5'UTR: 244 bp and NS5B: 1048 bp

## DeepChek®-HCV NS5B + 5'UTR

Genotyping Assay V2.x (Reference 110B24)

- Viral Hepatitis C (HCV) genotyping and subtyping
- Multiplex
- 5'UTR: 244 bp and NS5B: 420 bp

#### DeepChek®-HCV Core

Genotyping Assay V1 (Reference 109A24)

- Viral Hepatitis C (HCV) genotyping and subtyping
- Core: 463 bp

#### DeepChek®-HCV NS5A

DR Assay V1 (Reference 105A24)

- HCV genotyping and drug susceptibility of a patient's hepatitis C virus (HCV) to the NS5A inhibitors
- Including Nested PCR
- NS5A: codons 1 to 222

# DeepChek®-HCV NS3 Genotyping and DR Assay V1 (Reference: 108A24)

- HCV genotyping and drug susceptibility of a patient's hepatitis C virus (HCV) to the NS3 inhibitors
- Including Nested PCR
- NS3: codons 1 to 206

# DeepChek®-HCV NS5B Genotyping and DR Assay V4.x (Reference: 107D24)

- HCV genotyping and drug susceptibility of a patient's hepatitis C virus (HCV) to the NS5B inhibitors
- Including Nested PCR
- NS5B: codons 1 to 579



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# **HIGHLIGHTS**

#### TARGET-SPECIFIC AMPLIFICATION (24 samples/kit)

- Validated on all genotypes (pangenotypic)
- Sensitivity: 1000 UI/mL from 400 μL plasma/serum
- Reproducibility >99%
- PCR instruments also available through reagent rental

#### SEQUENCING

- For Sanger & Next Generation Sequencing (NGS)
- <u>SANGER</u>: DeepChek® SANGER Sequencing Assay
- NGS: DeepChek® Library Preparation Assays (incl. 24/48/96/384 indexes)
- Sanger & NGS sequencing devices also available through reagent rental



- Sequencing analysis and interpretation with CE-IVD software
- Sanger (AB1, FASTA) & NGS (FASTA/FASTQ including paired sequencing, BAM/SAM)
- Target specific data (5'UTR, NS5B, CORE, NS3, NS5A)
- Chromatogram editor integrated
- High resolution subtyping, amino-acid mutations detection, nucleotide changes detection
- Drug resistance assessment (for NS3, NS5A and NS5B inhibitors) from several up-to-date guidelines
- Complete and comprehensive reporting
- Hosting: On premise (local servers) or Cloud (including Health Data Hosting compliance)
- Servers also available through reagent rental

#### EXTRACTION (KITS & INSTRUMENTS)

- Manual or automated
- Optimized magnetic beads for fast extraction
- Easy to prepare and very good performance
- Fast Protocol : 96 samples within 24 minutes
- Extraction instrument also available through reagent rental

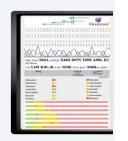
#### AUTOMATION

- Pipetting robot open system to be used for pre- or post-PCR automation
- IT Services (customization, data import, integration / LIS connectivity ...)
- Pipetting Robot also available through reagent rental















# HIGHLIGHTS on the DeepChek® technology

ROBUST
CE-IVD and RUO

## **FLEXIBLE**

For low to high throughput (1-384 samples in one run)

## **FAST**

~1-2 days (SANGER) ~2-4 days (NGS)

## **STANDARDIZED**

Kits, Software, Support, Integration with LIMS/HIS, Automation

## **COMPREHENSIVE**

Genotyping, Drug Resistance, Tropism, Reporting, Storage...

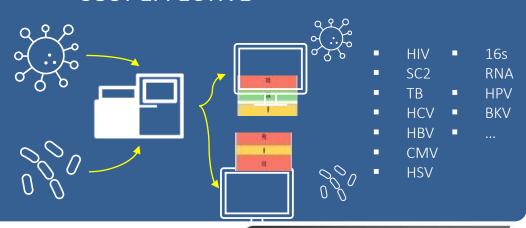
## **SECURED**

Healthcare Cloud Access, Local installation

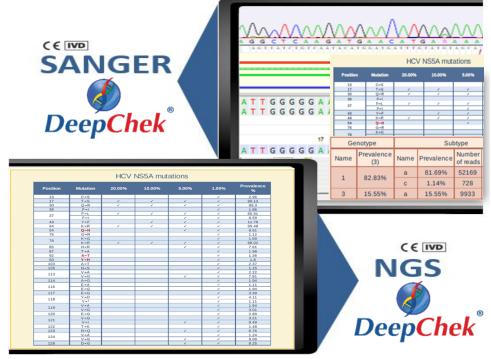
# POOLING CAPACITY

Pool several
DeepChek®
Libraries (samples)
from different
applications in the
same NGS run

## **COST EFFECTIVE**



## **REPORTING**





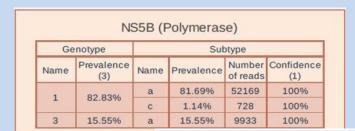


# **KEY FEATURES**

EMBEDDED
CHROMATOGRAM
EDITOR

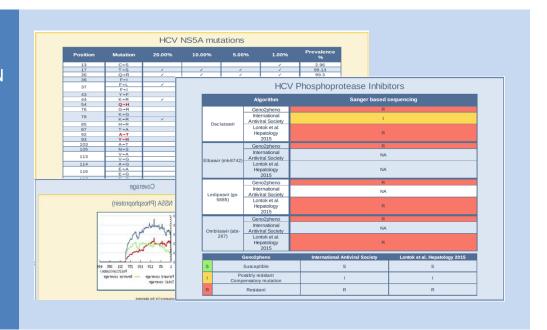


HIGH RESOLUTION
SUBTYPING



5'-UTR Genotype Subtype Number Confidence Name Prevalence Name of reads 52236 100% 81.71% 82.87% 1 745 100% 1.17% 3 15.55% 15.55% 9938 100% a

MUTATION DETECTION
DRUG RESISTANCE
ASSESSMENT





# **OTHER FEATURES**



#### Technology

- Web-based (browser only)
- · Software & database
- Local or Cloud (+HDS) hosting
- Unlimited user accounts
- Unlimited analyses



#### Security

- Data access restriction (pools, read-only mode...)
- Logging of user accesses
- Encrypted database
- Reports validation



#### Additional features

- Report customization
- Contamination check
- Quality control
- Export (reports, FASTA, XML...
- Batch mode analysis
- Data mining

#### Main features

- SANGER data management (AB1, FASTA with embedded chromatogram editor
- NGS data management (FASTQ) with dedicated pipeline
- Manual or automated base calling
- Variant calling
- Genotyping (per sample & cumulative)
- Subtyping
- Virtual-phenotyping
- Drug resistance through up-to-date guidelines
- Reporting & labelling

#### Services

- Constant updates
- Annual upgrades (versions)
- Historical data import
- LIMS integration
- HIS integration
- Support
- Trainings

# **REFERENCES & CONTACT**

Product	Reference
DeepChek® Assays	
DeepChek® Assay NS5B / 5'UTR Genotyping V2.x	110B24
DeepChek® Assay NS5B / 5'UTR Genotyping V3	110C24
DeepChek® Assay HCV-CORE Genotyping V1.x	109A24
DeepChek® Assay NS5A Genotyping and Drug Resistance V1.x	105A24
DeepChek® Assay NS5A (GT2) Drug Resistance V1	106A24
DeepChek® Assay NS3 Genotyping and Drug Resistance V1.x	108A24
DeepChek® Assay NS5B Genotyping and Drug Resistance V4.x	107D24
General Laboratory Products	
DeepChek® SANGER SEQUENCING REACTION V2 (24rx/48rx)	123A24/123A48
DeepChek® NGS LIBRARY PREPARATION V1 (24 indexes)	116B24+124B24
DeepChek® NGS LIBRARY PREPARATION V1 (48 indexes)	116B48+124B48
DeepChek® NGS LIBRARY PREPARATION V1 (96 indexes)	116B96+124B96
DeepChek® NGS LIBRARY PREPARATION V1 (384 indexes)	116B384+124B384
DeepChek® NGS Clean-up beads (60mL)	N411-02
DeepChek® 96x0.2 mL well plate (25 units)	B70501-01
Software	
DeepChek® - HCV Software (CE-IVD) Licence	S-12-023 (CL)
DeepChek® - HCV Software (CE-IVD) Module	S-12-023 (CM)



**Diagnostics** 

ABL Diagnostics S.A.

42, rue Olivier Métra – Bat E1 75020, PARIS France

contact@abldiagnostics.com
https://www.abldiagnostics.com

Phone:+33491051878



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