

HTG DMPK Assay Datasheet

HTG Edge

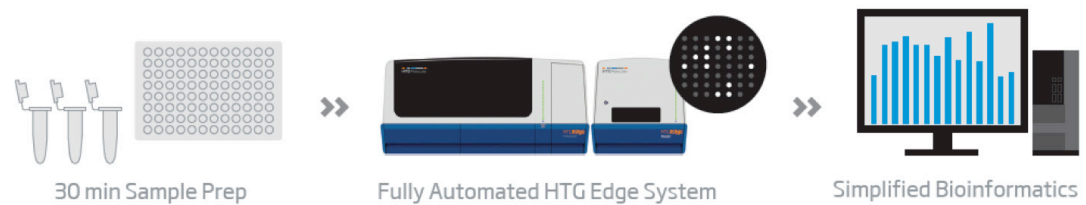
HTG Molecular Diagnostics has designed a HTG DMPK Assay that is deployable on the fully automated, award-winner HTG Edge System. Until recently, DMPK testing was performed utilizing labor intensive and complex PCR methodologies.

HTG DMPK Assay has been designed to run exclusively on HTG Edge System with minimal manual intervention. The assay is mRNA pre-configured to profile 47 genes associated with drug metabolism and pharmacokinetics. It has been optimized to measure RNA expression from primary hepatocytes and incorporates the cytochrome p450 genes as recommended in the 2012 draft FDA guidance document.

Features

- Automated assay on HTG Edge System
- Select only the relevant genes
- Test multiple lots of primary hepatocytes with the same assay
- Test Phase 1 and Phase 2 metabolism genes
- Includes 16 potential drug transporters
- Highly flexible test options

Fully automated on HTG Edge System



HTG Edge DMPK Gene List

Phase 1

- CYP1A1
- CYP1A2*
- CYP2A6
- CYP2B6
- CYP2C19
- CYP2C8
- CYP2C9
- CYP2D6
- CYP2E1
- CYP3A4*

Phase 2

- CYP3A5
- SULT1A1
- UGT1A1
- UGT1A3
- UGT1A4
- UGT1A6
- UGT1A9
- UGT2B17
- UGT2B7

Transporter

- ABCB11
- ABCC2 (MRP2/CMOAT)
- ABCC3 (MRP3/MLP2)
- ABCC4 (MRP4/MOATB)
- ABCG2 (BCRP/ABCP)
- ALC15A2 (PEPT2)
- CABCB1 (MDR1/PGP)
- SLC15A1 (PEPT1)
- SLC22A1 (OCT1)
- SLC22A2 (OCT2)
- SLC22A6 (OAT1)
- SLC22A8 (OAT3)
- SLC47A1 (MATE1)
- SLC01B1 (OATP1B1)
- SLC01B3 (OATP1B3)
- SLC02B1 (OAT2B1)

Reductase

- GSR

Oxidase

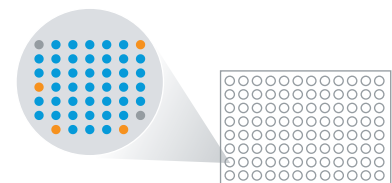
- CYP1A2

Housekeepers

- ACTB
- EEF2
- GAPDH
- RPLPO

Controls

- ANT
- POS1



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Sample Input Requirements

Sample Type	Minimum Sample Requirements
Cells, primary hepatocytes	12,000 cells

Assay kit for mRNA measurement of DMPK genes in hepatocyte cell lines. Kit contains all reagents, consumables and is automated on the HTG Edge System.

Ordering Information

HTG Edge DMPK Assay Kit	
816-095-040	4-pack (full-plate) Assay Kit



HTG Edge System

The award-winning HTG Edge System is the only automated RNA expression platform that delivers extraction-free, multiplexed results on a multitude of biological samples (tissue, blood, serum, cells) with fast turn-around times. The fully automated system is capable of performing HTG Edge Assays utilizing minimal specimen with walk-away simplicity, eliminating the tedious extraction and amplification steps normally associated with RT-PCR.

Simple

Fully automated. No extraction.

Accurate

High fidelity between fresh and fixed tissue.

Benefits of HTG Edge System and Chemistry

- No RNA extraction - EVER
- Broad variety of biological sample types, including FFPE, frozen tissue, cells, xenografts, PAXgene and plasma
- Barcoded reagents for ease of traceability and reporting
- ISO 13485:2003 hardware/software development

Request a Quote

Call 877-289-2615 today for more information on HTG Edge System.



For Research Use Only. Not for use in diagnostic procedures.

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