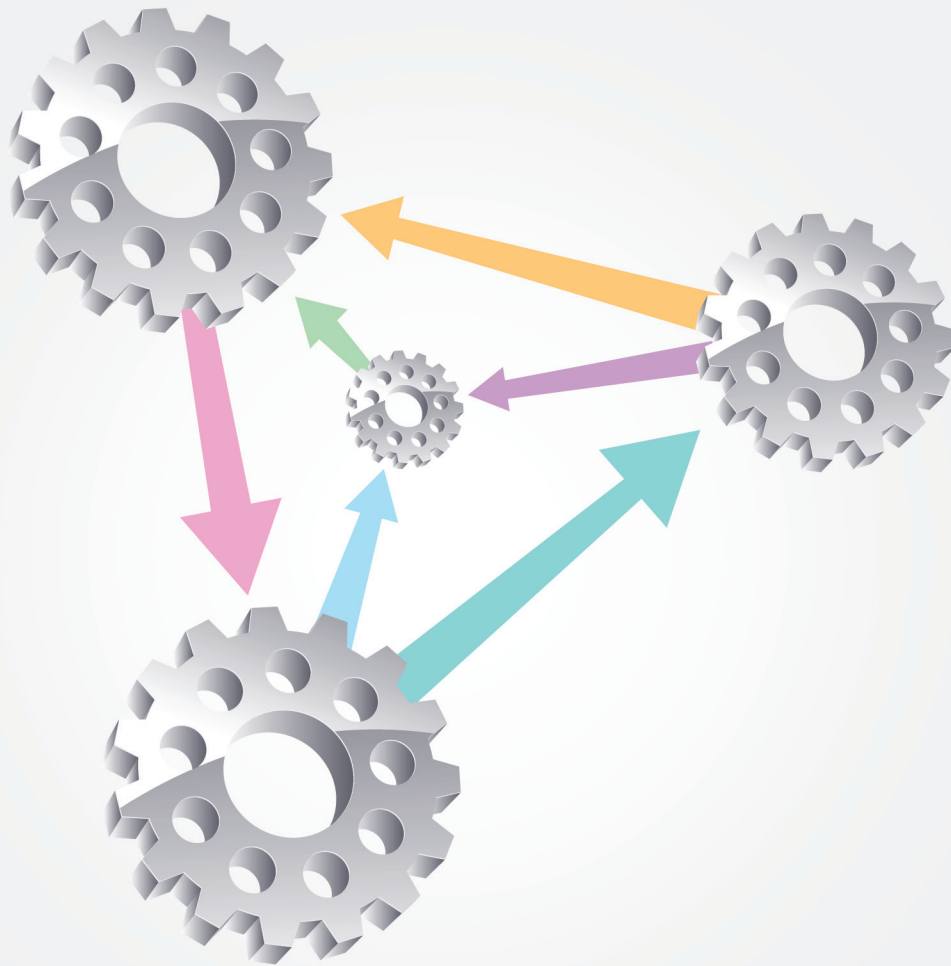


RTA **VOLTRAN**[®]

Viral Load Detection System CE IVD 0483



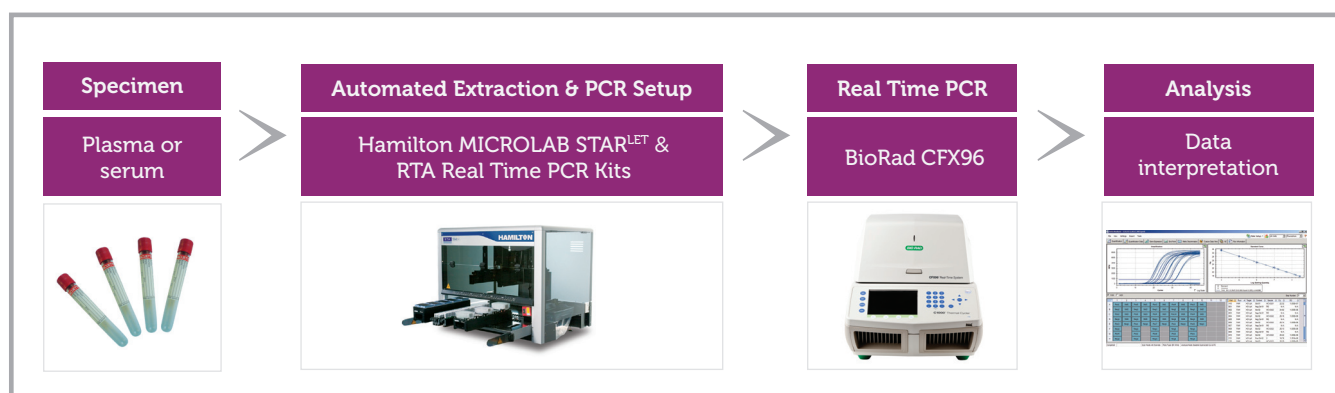
Unrivalled technology of
Hamilton
in liquid handling

RTAVOLTRAN®

Viral Load Detection System

Automated DNA/RNA Preparation, PCR Setup & Analysis

Minimize the hands on time. Standardize your assay. Get the accurate quantification. RTA now presents the perfect combination of the proven quality RTA Real Time PCR Kits and the best in class instrumentation Hamilton MICROLAB STAR^{LET} (CE-IVD) and BioRad CFX96TM (CE-IVD) for your routine detection of HBV, HCV, HIV-1 and CMV nucleic acids.



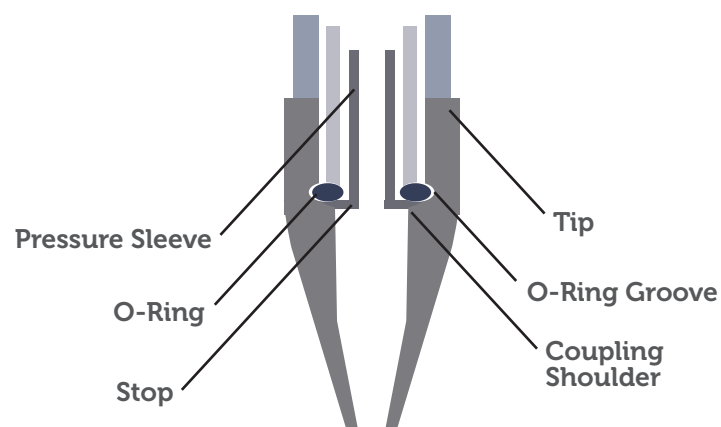
RTA VOLTRAN® Viral Load Detection System offers everything you need for a fast, productive and reliable operation:

- Compliance with EU IVD 98/79/EC
- Automated nucleic acid extraction (magnetic bead) and PCR Setup
- 96 sample capacity, build-in and handheld barcode scanner
- Inhibitor-free nucleic acid checked by internal control added during extraction
- Leading pipetting technology of HAMILTON based on 50 years of expertise in liquid handling
- High sensitivity of detection even from low concentrated samples
- User friendly GUI, software, complete sample traceability
- Easy maintenance and serviceability
- UV lamp for daily decontamination
- Quick run setup, easy monitoring of progress and powerful analysis tools of BioRad CFX 96TM



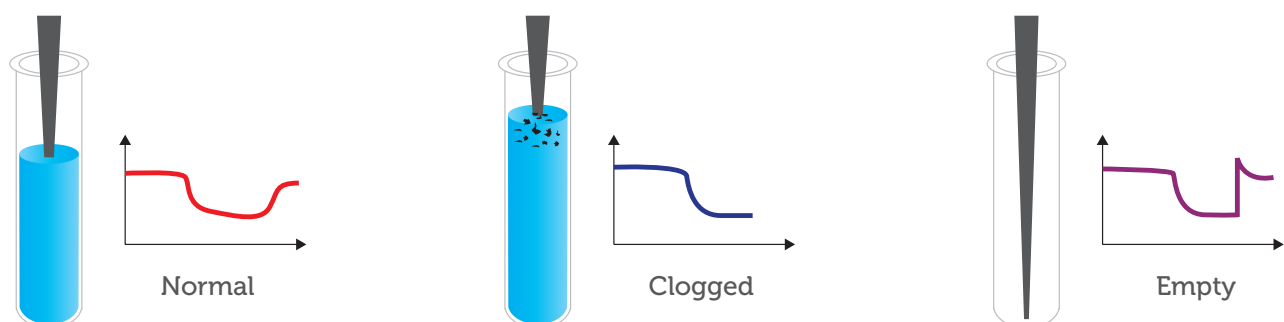
• Perfect tip attachment (CO-RE technology)

Compressed O-ring Expansion (CO-RE) technology of HAMILTON uses a robust lock-and-key fit mechanism to provide perfect tip attachment which is crucial for eliminating errors during pipetting. This unique technology provides precise positioning and eliminates mechanical stress resulting in reduced aerosol formation.



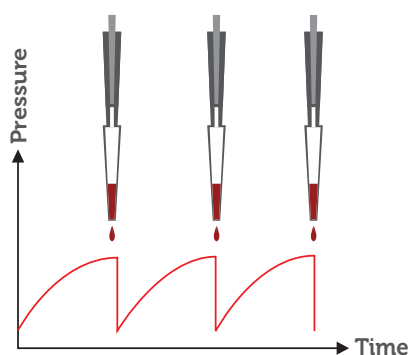
• Monitored Air Displacement (MAD)

The air displacement pipetting system of HAMILTON is developed to minimize the risk of contamination and sample dilution during pipetting. By monitoring the action, clots or empty wells are detected in real time.

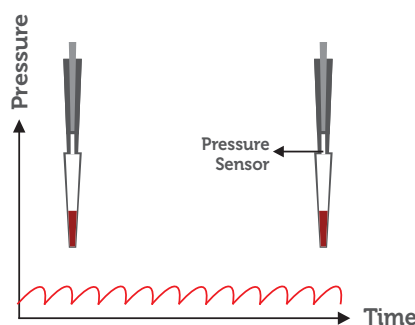


• Anti Droplet Control (ADC)

Pipetting highly volatile solvents is one of the major factors preventing automation of assays. HAMILTON's ADC technology compensates for pressure changes in the channels that are caused by the high vapor pressure of volatile solvents in real time. The system prevents inadvertent droplet from the tips that is crucial to obtain reliable and consistent automation.



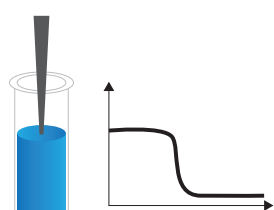
Without ADC, droplet is formed to reduce the pressure when it falls off.



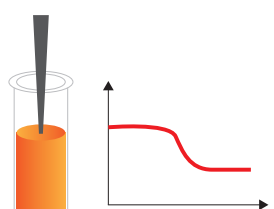
With ADC, pressure sensor detects pressure differences and piston movements compensates for it in real time. Droplet formation is prevented.

• Liquid Level detection (LLD)

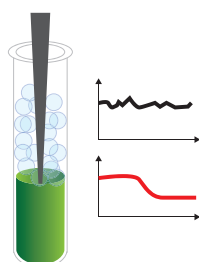
HAMILTON offers two modes of LLD technology for the detection of the liquid level: Traditional capacitive LLD and HAMILTON's unique pressure-based system which is the only way to determine the level of non - ionic liquids. Liquid level sensing in reagent eliminates the need to program specific pipetting heights regardless of the type of the solvent, bubbles or other factors.



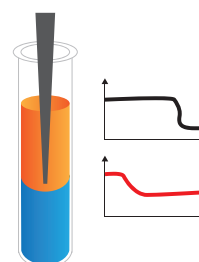
Conductive Solution



Non-Conductive Solution



Bubbles



Liquid-Liquid

Bubble & Separated Sample

Technical specifications of RTA RT PCR Kits on Hamilton-BioRad integrated system:

	HBV	HCV	HIV-1	CMV
Analytical sensitivity	10 IU/ml	15 IU/ml	77 IU/ml	60 IU/ml
Linear Range	9.9 - 1x10 ⁹	14 - 1x10 ⁹	77-1x10 ⁹	58,5-1x10 ⁹
Genotype detection	A,B,C,D,E,F,G,H	1, 2, 3, 4, 5, 6	A, B, C, D, AE, F, AG, G and H	All relevant genotypes and subtypes
Specificity (%)	100	100	100	100

Ordering Information

Product Name	Tests	Catalog #
Hamilton MICROLAB STAR ^{LET}		DMB03
BioRad Cfx 96 Rt Cycler		DMB04
BioRad Hard-Shell Thin-Wall 96-Well Skirted PCR Plates with Bar Codes		HSP-9955
BioRad Microseal "B" Adhesive Seals, optically clear		MSB-1001
HBV DNA Real Time Pcr Kit	12	09011012
HBV DNA Real Time Pcr Kit	24	09011024
HBV DNA Real Time Pcr Kit	48	09011048
HCV DNA Real Time Pcr Kit	12	09012012
HCV DNA Real Time Pcr Kit	24	09012024
HCV DNA Real Time Pcr Kit	48	09012048
HIV-I DNA Real Time Pcr Kit	12	09013012
HIV-I DNA Real Time Pcr Kit	24	09013024
HIV-I DNA Real Time Pcr Kit	48	09013048
CMV DNA Real Time Pcr Kit	12	09014012
CMV DNA Real Time Pcr Kit	24	09014024
CMV DNA Real Time Pcr Kit	48	09014048
RTA MB Viral Nucleic Acid Isolation Kit	12	09015012
RTA MB Viral Nucleic Acid Isolation Kit	24	09015024
RTA MB Viral Nucleic Acid Isolation Kit	48	09015048
High Vol. (1Ml) Co-Re Tips, Filtered 1000UI Tips With Filters		235905
Std. Vol. (300UI) Co-Re Tips, Filtered 300UI Tips With Filters		235903
Deep Well Plate Pp 2.2Ml Bc	100	235656
Rgt Cont. 1T 60Ml	100	194051
Reagent Tubes, Self-Standing 200Ml	100	56695-01
Waste Bag Biohazard	100	199203REV01

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