



ELITE InGenius

Fully Automated Sample-to-Result Solution

Consolidate Complex Molecular Diagnostics Testing Needs in One Simple-to-Use and Flexible Solution



Intelligent USER INTERFACE

- **User Management:** Individual login and roles, Audit trail
- **Assay Programming:** Open & Closed modes, CE-IVD assay locked & user-defined protocol, Custom panel saving
- **Reagent Management:** Traceability on screen and reports, Inventory manager tracks reagent block test configuration, Setup, Usage, Expiry
- **Run Setup & Monitoring:** Bi-directional LIS connectivity, Bar-coded materials, Graphical loading guidance, Indicates progress, time left & curves in real time

- **Assay Calibration:** Stores curves of multiple calibrator & reagent lots, Manages bar-code entry, approval, expiry
- **Quality Control:** Stores multiple control & reagent lots, Levy Jennings, CT plots
- **Reports:** Run results summary, Custom report by track or patient with optional plots, Calibration & control reports

SPECIFICATIONS

System Overview

- Benchtop instrument with integrated touch screen - 100x75x85 cm - 184 kg
- Throughput: 3 000 to 9 000 tests per year
- Time-to-result: approximately 2h30

Specimen

- 1 to 12 samples per run
- Validated matrices: whole blood, plasma, serum, CSF, nasal & throat swab, stool
- Primary tube loading capability

Sample Preparation

- Sonication capability
- Patented magnetic bead technology
- Extraction reagent: prefilled, unitary cartridge format - ELITE InGenius SP200
- Sample volume processed: 200µL, Elution volume: 50µL, 100µL, 200µL
- Extracted nucleic acid storage

Amplification

- 12 independently controlled RT-PCR units
- Minimum 6plex target capability enhanced with melt curve analysis
- Amplification reagent: CE-IVD with ELITE MGB line, open capability for a wide large range of chemistries
- Reagent manager area with active cooling - 24 positions
- Multiple PCR from one extracted sample
- Quantitative results: up to 6 calibrator levels
- RT-PCR volume: 20 µL to 50 µL
- Pipetting range: 5 µL to 300 µL with multidispensing
- Security features: specific cassette design, drop catcher, filter tips, UV treatment, multiple liquid level detection...

Data Management

- Bi-directional LIS connectivity
- Quality control with Levey-Jennings plot
- Large range of barcode & QR code accepted for samples & reagents traceability
- Remote access for service and diagnostics

Ordering Information		Quantity	Reference
ELITE InGenius™	Sample-to-result instrument with touch screen	1	INT030
ELITE InGenius™ SP 200	Pre-filled unitary cartridge for universal extraction	48	INT032SP200
ELITE InGenius™ SP 200 Consumable Set	Consumable set for extraction	48	INT032CS
ELITE InGenius™ PCR Cassette	Universal PCR reaction vessel	192	INT035PCR
RT-PCR Assays ELITE MGB® line (CE) & ASRs (US)	Please refer to the specific catalogue and price list		
ELITE InGenius™ Waste Box	Plastic bag for tip waste	20	F2102-000

A pioneer in PCR technologies for more than 20 years, ELITechGroup is a leading PCR innovator with the revolutionary Minor Groove Binder (MGB) technology and has become today a global solution provider for Molecular Diagnostics. Our deep-rooted culture of innovation, combined with the highest manufacturing quality standard and long-lasting collaborations with customers and international working groups enables us to design a solution tailored to YOUR needs. ELITechGroup Molecular Diagnostics solutions enable healthcare providers to make better medical decisions, improve patient outcomes and deliver a superior level of service and patient care.

WORLDWIDE OFFICES

- | | | | |
|---------------------------------|-----------------------|-----------------------------|---------------------|
| Headquarters | T: +33 1 41 45 07 10 | Serbia | T: +381 11 2467119 |
| Australia | T: +61 1800 815 098 | Switzerland | T: +41 26 663 86 60 |
| Belgium & Luxembourg | T: +32 9 282 05 31 | The Netherlands | T: +31 313 430 500 |
| Brazil | T: +55 27 3025 1415 | UK | T: +44 1442 869320 |
| France | T: +33 4 83 36 10 82 | United Arab Emirates | T: +971 4 375 2744 |
| Italy | T: +39 02 48 40 35 42 | United States | T: +1 800 453 2725 |
| New Zealand | T: +64 800 555 611 | | |



EHD-ELITE InGenius-499-2015/01 EN



CE-IVD Menu

Transplant Pathogen Monitoring

- | | |
|--------|------------------|
| ① CMV | ⑦ Parvovirus B19 |
| ② EBV | ⑧ Adenovirus |
| ③ BKV | ⑨ Enterovirus |
| ④ VZV | ⑩ JCV |
| ⑤ HSV1 | ⑪ HHV6 |
| ⑥ HSV2 | ⑫ HHV8 |
- Available Available Available Available

Healthcare Associated Infection

- | | |
|---|--|
| ⑬ MRSA/SA
— <i>S. aureus</i> ,
— <i>mecA/mecC</i> | ⑮ CRE panel
— KPC,
— IMP, VIM, NDM,
— OXA |
| ⑭ C. difficile
— Toxin A,
— Toxin B | ⑯ ESBL
— CTX-M-1,15
— CTX-M-9,14 |
- Available Available Expected Q4 2016 Expected Q4 2016

Respiratory Infection

- | | |
|--|---|
| ⑰ Viral panel
— Flu A,
— Flu B,
— RSV | ⑱ Bacterial panel
— <i>C. pneumoniae</i> ,
— <i>M. pneumoniae</i> ,
— <i>Legionella spp.</i> |
|--|---|
- Expected Q4 2016 Expected Q1 2017

Meningitis

- | | |
|--|--|
| ⑲ Viral panel 1
— HSV1,
— HSV2,
— VZV | ⑳ Viral panel 2
— Enterovirus,
— Parechovirus,
— Adenovirus |
| Expected Q4 2016 | Expected Q4 2016 |

- ⑩ HHV7*
⑪ *Toxoplasma gondii**
⑫ WNV*
*Available soon

Sexual Transmitted Disease

- ⑳ Sexual Disease panel
— *C. trachomatis*,
— *N. gonorrhoea*,
— *M. genitalium*
- Expected Q4 2016

Coagulation Factors

- ㉑ Coagulation factors panel
— Factor V,
— Factor II,
— MTHFR
- Expected Q4 2016

- ㉒ Bacterial panel
— *N. meningitidis*,
— *S. pneumoniae*,
— *H. influenzae*
- Expected Q1 2017



Open Menu

ELITechGroup Reagents: Infectious Diseases and Genetics Testing

- | | | |
|-------------------|----------------------------|------------------------------|
| ① CMV | ⑬ Enterovirus | ㉕ STD panel* |
| ② EBV | ⑭ JCV | ㉖ <i>C. trachomatis</i> * |
| ③ BKV | ⑮ <i>Toxoplasma gondii</i> | ㉗ Meningitis panels* |
| ④ HSV1 | ⑯ MRSA/SA | ㉘ Factor II |
| ⑤ HSV2 | ⑰ C. difficile | ㉙ Factor V |
| ⑥ HHV6 | ⑱ CRE panel | ㉚ Factor VHR2 |
| ⑦ HHV7 | ⑲ <i>M. pneumoniae</i> | ㉛ Factor MTHFR C677T |
| ⑧ HHV8 | ⑳ C. pneumoniae | ㉜ Factor MTHFR A1298C |
| ⑨ VZV | ㉑ Legionella spp. | ㉝ Coagulation factors panel* |
| ⑩ Adenovirus | ㉒ Aspergillus* | *Available soon |
| ⑪ Parvovirus B19 | ㉓ MTB* | |
| ⑫ West Nile Virus | ㉔ Respiratory panels* | |

Laboratory Developed Tests

- > Large range of compatible chemistry: Pleiades, Taqman, Scorpion, SybrGreen
- > Reaction volume: 20µl to 50µl
- > 6plex capability



Sample Specimens

- | | | |
|-----------------------|-----------------|----------------------------|
| ① Whole Blood | ⑤ Urine | ⑨ Stool |
| ② Plasma | ⑥ Nasal Swab | ⑩ Rectal Swab |
| ③ Serum | ⑦ Throat Swab | ⑪ Broncho Alveolar Lavage* |
| ④ Cerebrospinal Fluid | ⑧ Genital Swab* | ⑫ Sputum* |
| | | *Available soon |

To Consolidate Complex MDx Testing Needs in One Simple-to-Use and Flexible Solution...



Full AUTOMATION

- Bench-top solution integrating **all the steps of Molecular Diagnostics** in a single platform. Automated nucleic acid extraction, RT-PCR amplification, and result analysis guided step by step by an **intuitive touch screen interface**.
- Combines the functionalities of multiple molecular platforms and **reduce the hands-on-time to few minutes**.
- Bi-directional connectivity enabling the laboratory to automatically query the LIS to import testing information and export patient's results.
- **Primary tube loading** capability.



Efficient PERFORMANCE

- High yield of extraction even with low sample volume thanks to **patented magnetic beads technology** combined with sonication, thermal and chemical sample treatment.
- Best-in-class CE-IVD RT-PCR menu based on the **MGB technology** for qualitative and **quantitative applications correlated to W.H.O. International Units**.
- Unitary **cassette-based format** to guarantee an high result accuracy and control of the reagent consumption.
- **Overall time to-result** from extraction to result analysis, **approximately 2h30** and hands-on-time reduced to less than **2 minutes per sample**.



Unrivalled FLEXIBILITY

- **1 to 12 samples processed in parallel** tracks offering the possibility to potentially **mix any kind of sample matrices** and use diverse thermal profiles simultaneously and even **different PCR chemistries within the same run**.
- **Multiple and independent PCR capability from one extracted** sample enabling the laboratory to define customized and comprehensive panel of tests adapted to each patient needs.
- **Several operational modes** available : extraction only, amplification only, or full processing extraction, amplification and result analysis with melt curve analysis capability.
- **Extracted nucleic acid storage** for multiple PCR testing, additional retesting or archiving.



Unlimited MENU

- **First sample-to-result solution** with a comprehensive menu introduced with a **transplant pathogen monitoring** and broad menu of **quantitative applications**.
- **Rapid CE-IVD ELITE MGB RT-PCR menu introduction**
 - CMV ELITE MGB assay
 - EBV ELITE MGB assay
 - BKV ELITE MGB assay
 - HSV1 ELITE MGB assay and HSV2 ELITE MGB assay
 - Adenovirus ELITE MGB assay
 - VZV ELITE MGB assay
 - Parvovirus B19 ELITE MGB assay
 - MRSA/SA ELITE MGB assay
 - C. difficile ELITE MGB assay
 - And much more with the complete ELITE MGB line
- **Minimum 6plex target capability** enhanced with melt curve analysis.
- **Mixed and matched** within the same run **CE-IVD assays, laboratory developed assays or other assays of interest** simply on demand.
- **Personalized menu** by saving test panel.

...A Unique Workflow Combining Capabilities not Available on Other Sample-to-Result Systems



Primary tube loading capability

Secondary tube sonication capability

Integrated piercing and pipetting tips

Extracted nucleic acid storage

Universal prefilled extraction cartridge

Multiple PCR for one extraction

12 independently controlled RT-PCR units with multiplexing capability – 6 optical channels per unit

