

# ELITE InGenius

Unique Healthcare  
Associated Infections menu

Comprehensive, Fast, and Flexible Sample-to-Result Solution  
for **Healthcare Associated Infections** and  
**Antimicrobial Resistance** Testing



ELITe InGenius®, a **comprehensive** sample-to-result solution for Healthcare Associated Infections testing



ELITe MGB® line, a **superior** CE-IVD menu to prevent nosocomial infections and tackle antimicrobial resistance

This innovative molecular diagnostics solution features capabilities not available on other systems.

Fully automated and highly flexible, ELITe InGenius is designed to simplify testing workflow enabling laboratories to perform multiple and independent PCR in parallel simply on demand, with less than 2 minutes hands-on time.

Additionally, ELITe InGenius offers laboratories a superior and unique HAI menu including a complete range of antibiotics resistance testing in Gram negative bacteria with CRE, ESBL, and Colistin assays.

Unprecedented flexibility and full automation

- **Fully automated** from extraction to result analysis
- **Full flexibility in patient sample processing:**
  - 1 to 12 samples independently processed
  - Direct loading of transport media without pre-treatment
  - Mix and match all kinds of sample matrices within one run
  - Storage of extracted nucleic acid in individual tubes for multiple and reflex testing, sequencing, or archiving
- **Full flexibility in PCR testing:**
  - Suitable for HAI emergency and batch testing
  - Mix and match any real-time PCR assays on demand
  - Up to 4 parallel or reflex PCR from one single extract
- **Adaptable to any HAI testing scenarios:**
  - Patient screening,
  - Infection diagnosis,
  - Confirmation of positive samples obtained with culture

Complete and high-performance assay menu

<b>MRSA/SA ELITe MGB® Kit</b>	SA MRSA, Including <i>mecC</i>	98.9% sensitivity 100% specificity	<div><div></div><div></div></div>
<b>C. difficile ELITe MGB® Kit</b>	Toxin A Toxin B, including NAP1/BI/027	100% sensitivity 98% specificity	<div><div></div></div>
<b>Open Channel</b>	Laboratory developed tests, & others tests of interest		<div><div></div><div></div><div></div><div></div><div></div></div>
<b>ESBL ELITe MGB® Kit</b>	CTX M-1 CTX M-9	99.5% sensitivity 97.8% specificity	<div><div></div><div></div><div></div></div>
<b>CRE ELITe MGB® Kit</b>	KPC VIM, IMP, NDM OXA 48	99.7% sensitivity 98% specificity	<div><div></div><div></div><div></div></div>
<b>Colistin ELITe MGB® Kit*</b>	mcr-1 mcr-2	100% sensitivity 100% specificity	<div><div></div><div></div></div>

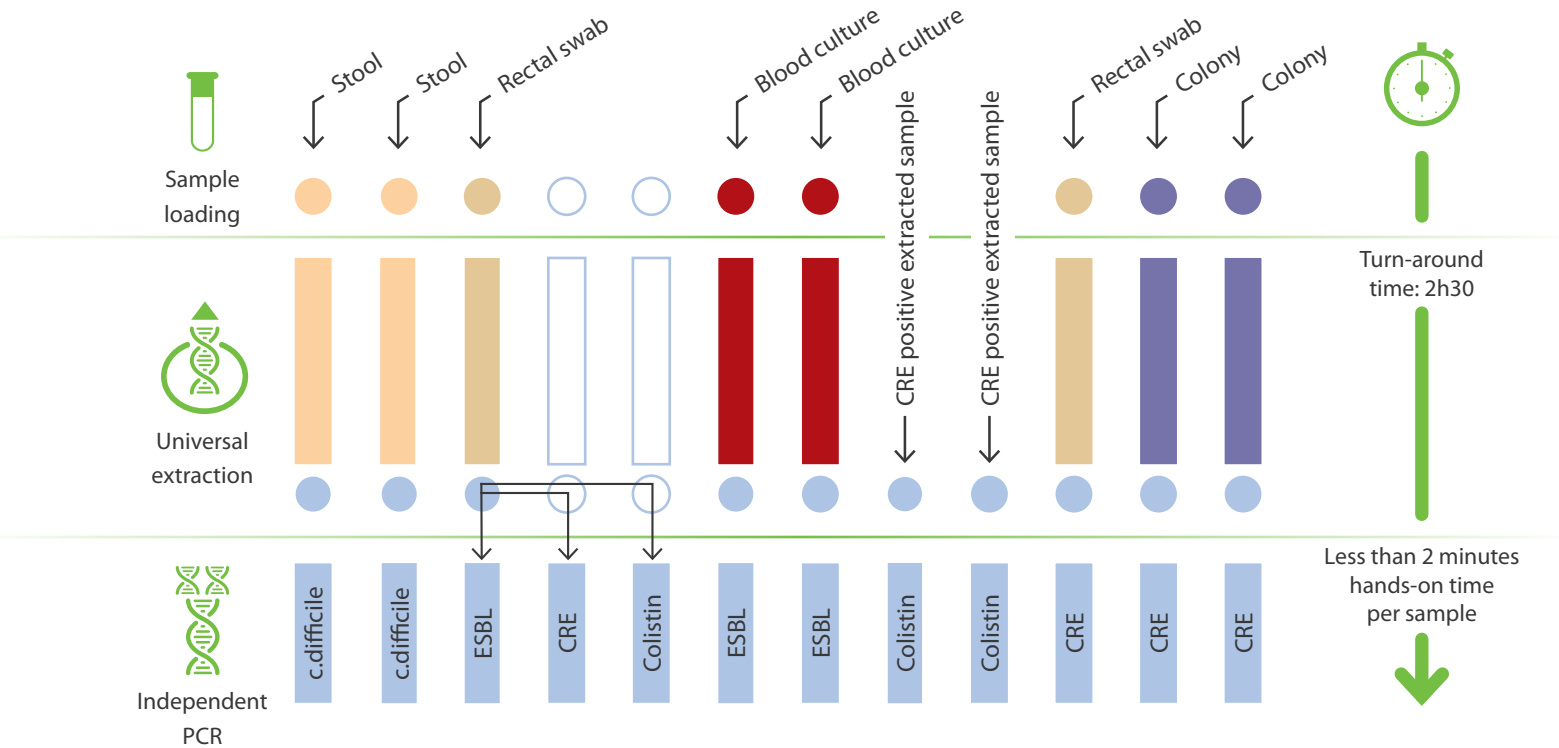
- Focused **multiplexed** real-time PCR assays
- Designed with industry-leading, proprietary **Minor Groove Binder (MGB)** technology
- Developed with our **extensive experience** and **long-lasting expertise** in design, optimization, and validation of PCR assays
- **Monoreagent**, ready-to-use format to save time and guarantee result accuracy
- **Unlimited menu capability** in combination with other ELITechGroup assays and laboratory developed tests within one run
- **Compatible with open instruments:** All PCR reagents can be used on both sample-to-result and conventional PCR systems

\*RUO version, CE-IVD available in 2019

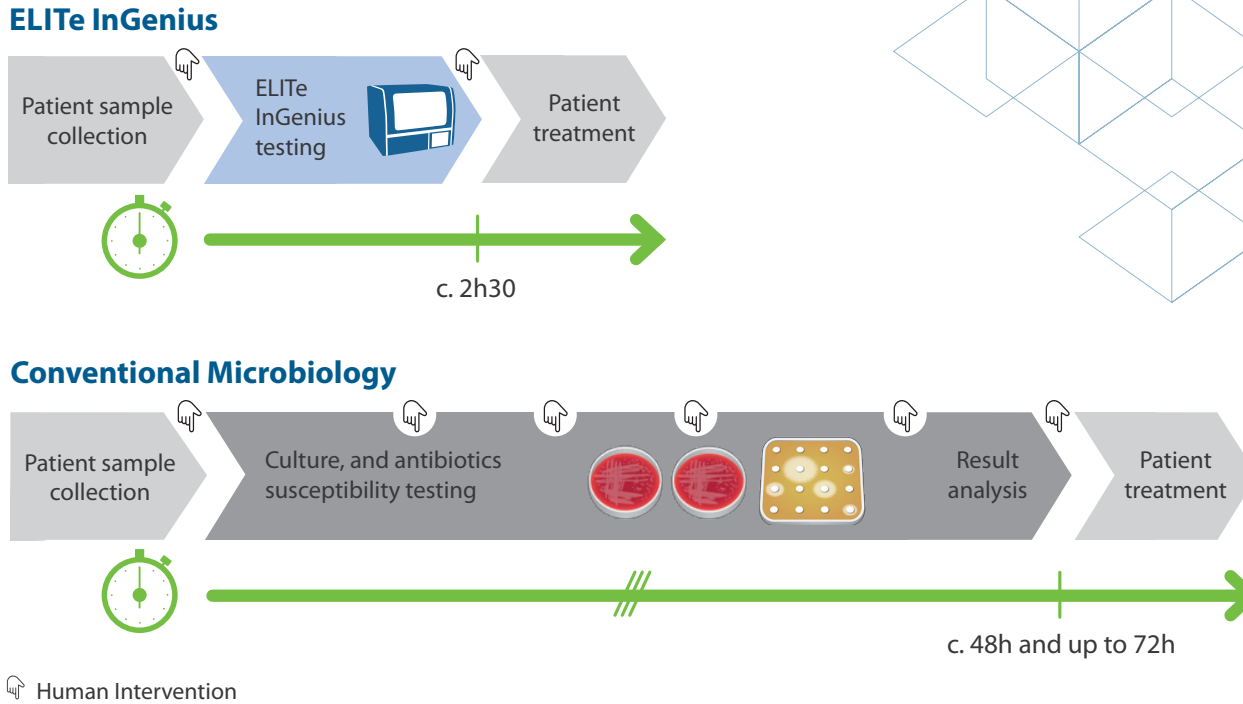
Fast, and actionable results when time matters

- **Superior alternative to complex conventional microbiology workflow:**
  - Faster answers by shortening the time-to-result from several days to just **2h30**
  - Easy-to-operate with minimal hands-on time
  - Higher sensitivity, and accurate results
- **Cost-effective solution** for hospitals:
  - Significant reduction of patients' isolation, and length of hospitalization
  - Infection prevention and control
  - Better antibiotic stewardship
- **Improve patient management** with faster and appropriate treatment decision
- **Proven technology:** Mean Time Before Failure higher **than 13 months**

ELITe InGenius workflow



Time-to-result comparison





## Fact sheet

Healthcare Associated Infections (HAI) and antimicrobial resistance (AMR) are major global health issues worldwide with adverse impacts on healthcare facilities, patients and societies. Amongst several measures, like infection control or antibiotics stewardship, the use of rapid molecular tools in hospital laboratories is vital to address this rising problem.

### HAI burden



**7% to 10%**

of hospitalized patients will acquire at least one HAI

**1/3**

of intensive care unit patients

will acquire at least one HAI



**1/4**

of HAI in long-term acute care settings

are caused by antibiotic resistant bacteria<sup>(1)</sup>



### C. difficile and MRSA/SA impact

**172,000**

c. difficile infections each year in Europe



**€3,000 M**

**40%**

of deaths within the 3 months after diagnosis<sup>(2)</sup>



**171,200**

MRSA infections in Europe in 2008<sup>(3)</sup>



**€380 M**

**5,400**

deaths



### Antimicrobial resistance threat

**Today**



**700,000**

worldwide are attributable to antimicrobial resistance



deaths



**→ 2050**

Based on scenarios of rising drug resistance,

**10 million**



deaths

**= 1 person every 3 seconds**



**\$100 trillion<sup>(1)</sup>**

(1) Tackling Drug-Resistant Infections Globally: Final Report And Recommendations The Review On Antimicrobial Resistance, 2016

(2) CLOSTRIDIUM DIFFICILE INFECTION IN EUROPE, European Hospital and Healthcare Federation (HOPE), April 2013

(3) Systematic literature analysis and review of targeted preventive measures to limit healthcare-associated infections by methicillin-resistant Staphylococcus aureus, R Köck et al. 2014



ELITechGroup delivers unparalleled solutions for **Healthcare Associated Infections** testing based on the ELITe MGB® line, a unique and high-performance range of real-time PCR assays. In combination with ELITe InGenius, a highly flexible sample-to-result solution, laboratories and hospitals gain significant benefits in terms of quality of results, efficiency, productivity, and costs:

- Workflow simplification
- Fast and accurate results
- Infection prevention and control
- Better patient management
- High economic impact
- Adaptability to laboratory testing needs

Additionally, CE-IVD validated with conventional PCR systems and compatible with most of extraction, and thermal cyclers available on market, the ELITe MGB® line offers laboratories a unique configuration adapted to every laboratory workflow and throughput needs.



## Ordering information

Product Name	Quantity	Reference
C. difficile ELITe MGB® Kit	100	M800358
C. difficile ELITe Positive Control	12	M800373
MRSA/SA ELITe MGB® Kit	100	M800351
MRSA/SA ELITe Positive Control	12	M800356
CRE ELITe MGB® Kit	96	RTS200ING
CRE ELITe Positive Control	12	CTR200ING
ESBL ELITe MGB® Kit	96	RTS201ING
ESBL ELITe Positive Control	12	CTR201ING
Colistin ELITe MGB® Kit	96	RTS202ING
Colistin ELITe Positive Control	12	CTR202ING



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 culture of innovation, combined with the highest manufacturing quality standard and long-lasting collaborations with customers and international working groups enables us to design and manufacture superior sensitivity and specificity real-time PCR assays for infectious disease testing, immunocompromised patient monitoring, antibiotic resistance control, oncohematology, and genetic testing.