

## ELITechGroup Real-Time PCR Proprietary Technologies

### MINOR GROOVE BINDER (MGB)

Synthetic molecule attached to the 5'-end of MGB DNA probes, that binds in the minor groove of hybrid DNA molecules

- Increase stability of hybrid DNA enabling the design of shorter probes for excellent specificity and sensitivity polymorphisms discrimination
- Identify emerging mutations and reliably discriminate variants
- Increase Tm reproducibly in A-T and G-C rich regions
- Enable reliable, clear and unambiguous meltcurve analysis

### ECLIPSE® DARK QUENCHER

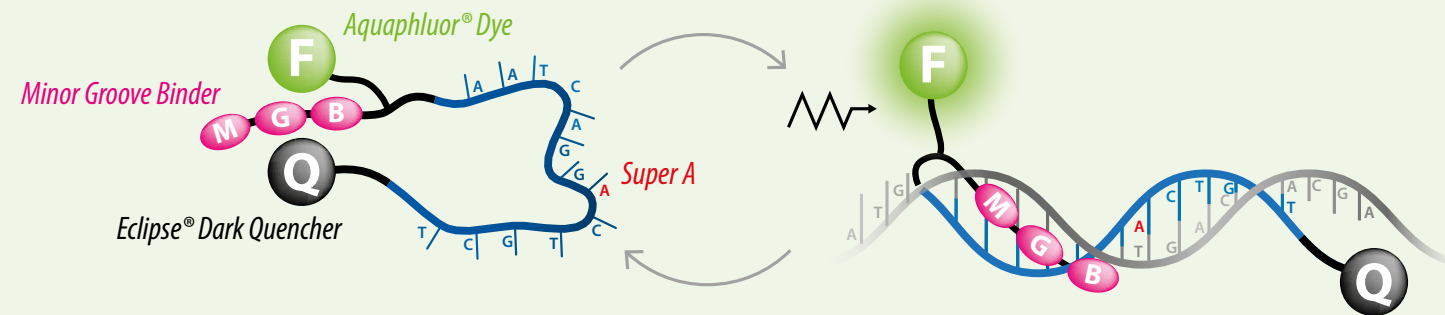
Absorbs the fluorophore energy and dissipates it as heat; while a typical quencher re-emits part of the energy as light

- Improve absorbance of fluorescence emitted from dye reagents
- Decrease background level of fluorescence
- Improve PCR assay sensitivity
- Cover 4 spectra wavelengths

### PLEIADES PROBES

Proprietary probes concentrating all ELITechGroup PCR technologies, designed with **Minor Groove Binder (MGB), Eclipse® Dark Quencher, AquaPhluor® dyes, and Superbases™**

- Very low background and high hybridization-triggered fluorescence
- Unique quenching effects with the combined action of MGB and Eclipse® Dark Quencher
- Exceptional specificity from shorter length probes with the MGB moiety
- Improved sensitivity by combining the strong hybridization signal with low background
- Melt-curve analysis capability



### AQUAPHLUOR® DYE

Fluorescent compound that can re-emit light upon light excitation

- Optimize detection with the comprehensive range of 25 different colors from UV to far-red developed
- Utilize dyes perfectly adapted to multiplexed assays

### SUPERBASES™: Super A, Super T, Super G, and Super I

Engineered nucleotides selectively used to optimize primers and probes design

- Enhance A-T stability (e.g. rich A/T domains)
- Reduce secondary structure (e.g. GG selfassociation) and fluorescence quenching
- Confer close Tm value when paired with any bases

## About ELITechGroup

A pioneer in PCR technologies for more than 30 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 CE-IVD real-time PCR assays with unsurpassable performance for laboratories and clinicians.

## High value diagnostic solutions for better medical decisions



Transplant Pathogen Monitoring



Healthcare Associated Infections



Respiratory Infections



Sexually Transmitted Infections



Meningitis



Genetics



Oncohematology



Gastro-Intestinal Infections



ELITechGroup is certified by DEKRA and applies a quality management system in compliance with ISO 9001:2015 and EN ISO 13485:2016

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## Molecular Diagnostics

## ELITe MGB®

Real-Time PCR Assays

## MGB



### HIGH PERFORMANCE

assays for infectious diseases, genetics & oncohematology testing

**LEADING** quantitative & multiplex assays for in vitro diagnostic use

**SIMPLIFIED** workflow in combination with the ELITe InGenius® system

**ELITechGroup**  
EMPOWERING IVD



## Transplant Pathogen Monitoring

Broadest range of real-time PCR assays for accurate diagnosis and monitoring of infections in immunocompromised patients

| Reference | Product Description        | Quantity | Reference | Product Description                   | Quantity |
|-----------|----------------------------|----------|-----------|---------------------------------------|----------|
| RTK015PLD | <b>CMV ELITe MGB® Kit</b>  | 100      | RTS035PLD | <b>VZV ELITe MGB® Kit</b>             | 100      |
| STD015PLD | CMV ELITe Standard         | 8        | STD035PLD | VZV ELITe Standard                    | 16       |
| CTR015PLD | CMV ELITe Pos. Control     | 12       | CTR035PLD | VZV ELITe Pos. Control                | 12       |
| RTS020PLD | <b>EBV ELITe MGB® Kit</b>  | 100      | RTS176PLD | <b>JCV ELITe MGB® Kit</b>             | 100      |
| STD020PLD | EBV ELITe Standard         | 16       | STD176PLD | JCV ELITe Standard                    | 16       |
| CTR020PLD | EBV ELITe Pos. Control     | 12       | CTR176PLD | JCV ELITe Pos. Control                | 12       |
| RTS175PLD | <b>BKV ELITe MGB® Kit</b>  | 100      | RTS078PLD | <b>Adenovirus ELITe MGB® Kit</b>      | 100      |
| STD175PLD | BKV ELITe Standard         | 16       | STD078PLD | Adenovirus ELITe Standard             | 16       |
| CTR175PLD | BKV ELITe Pos. Control     | 12       | CTR078PLD | Adenovirus ELITe Pos. Control         | 12       |
| RTS031PLD | <b>HSV1 ELITe MGB® Kit</b> | 100      | RTS070PLD | <b>Parvovirus B19 ELITe MGB® Kit</b>  | 100      |
| STD031PLD | HSV1 ELITe Standard        | 16       | STD070PLD | Parvovirus B19 ELITe Standard         | 16       |
| CTR031PLD | HSV1 ELITe Pos. Control    | 12       | CTR070PLD | Parvovirus B19 ELITe Pos. Control     | 12       |
| RTS032PLD | <b>HSV2 ELITe MGB® Kit</b> | 100      | RTS076PLD | <b>Enterovirus ELITe MGB® Kit</b>     | 100      |
| STD032PLD | HSV2 ELITe Standard        | 16       | STD076PLD | Enterovirus ELITe Standard            | 16       |
| CTR032PLD | HSV2 ELITe Pos. Control    | 12       | CTR076PLD | Enterovirus ELITe Pos. Control        | 12       |
| RTS036PLD | <b>HHV6 ELITe MGB® Kit</b> | 100      | RTS100PLD | <b>WEST NILE VIRUS ELITe MGB® Kit</b> | 100      |
| STD036PLD | HHV6 ELITe Standard        | 16       | STD100PLD | WEST NILE VIRUS ELITe Standard        | 16       |
| CTR036PLD | HHV6 ELITe Pos. Control    | 12       | CTR100PLD | WEST NILE VIRUS ELITe Pos. Control    | 12       |
| RTS037PLD | <b>HHV7 ELITe MGB® Kit</b> | 100      | RTST01PLD | <b>TOXOPLASMA g. ELITe MGB® Kit</b>   | 100      |
| STD037PLD | HHV7 ELITe Standard        | 16       | CTRT01PLD | TOXOPLASMA g. ELITe Pos. Control      | 12       |
| CTR037PLD | HHV7 ELITe Pos. Control    | 12       | RTS130ING | <b>HEV ELITe MGB® Kit** (RUO)</b>     | 96       |
| RTS038PLD | <b>HHV8 ELITe MGB® Kit</b> | 100      | CTR130ING | HEV ELITe Pos. Control                | 10       |
| STD038PLD | HHV8 ELITe Standard        | 16       |           |                                       |          |
| CTR038PLD | HHV8 ELITe Pos. Control    | 12       |           |                                       |          |



## Respiratory Infections

Viral, bacterial and fungal respiratory assays for patient diagnosis and monitoring

| Reference | Product Description                   | Quantity | Reference | Product Description                            | Quantity |
|-----------|---------------------------------------|----------|-----------|--|----------|
| RTS110PLD | <b>Aspergillus spp ELITe MGB® Kit</b> | 100      | RTS548ING | <b>Respiratory Viral ELITe MGB® Panel*</b>     | 96       |
| STD110PLD | Aspergillus spp ELITe Standard        | 16       | CTR548ING | Respiratory Viral ELITe Pos. Control           | 12       |
| RTS120ING | <b>MDR/MTB ELITe MGB® Kit</b>         | 48       | RTS553ING | <b>Respiratory Bacterial ELITe MGB® Panel*</b> | 96       |
| CTR120ING | MDR/MTB ELITe Pos. Control            | 6        | CTR553ING | Respiratory Bacterial ELITe Pos. Control       | 12       |
| RTS120PLD | <b>MTB ELITe MGB® Kit</b>             | 100      |           |  |          |
| CTR120PLD | MTB ELITe Pos. Control                | 12       |           |  |          |



## Sexually Transmitted Diseases

Multiplex assays to detect the main bacteria responsible for STIs

| Reference | Product Description  | Quantity | Reference | Product Description                           | Quantity |
|-----------|--|----------|-----------|---|----------|
| RTS400ING | <b>STI PLUS ELITe MGB Kit</b>                                      | 96       | RTS401ING | <b>Macrolide-R/MG ELITe MGB® Kit***</b>       | 96       |
| CTR400ING | <i>C. trachomatis, N. gonorrhoeae, M. genitalium, T. vaginalis</i> |          | CTR401ING | <i>M. genitalium, resistance to macrolide</i> | 12       |
| CTR400ING | STI PLUS ELITe Pos. Control  | 12       |           |   |          |
| RTS098PLD | <b>CHLAMYDIA tr. ELITe MGB® Kit</b>                                | 100      |           |   |          |
| CTR098PLD | CHLAMYDIA tr. ELITe Pos. Control                                   | 12       |           |   |          |



## Meningitis

Multiplex assays for viral meningitis and encephalitis testing

| Reference | Product Description                         | Quantity | Reference | Product Description  | Quantity |
|-----------|---|----------|-----------|--|----------|
| RTS507ING | <b>Meningitis Viral ELITe MGB® Panel*</b>   | 96       | RTS300ING | <b>Meningitis Bacterial ELITe MGB® Kit</b>                                 | 96       |
| CTR507ING | HSV1, HSV2, VZV                             |          | CTR300ING | <i>N. meningitidis, S. pneumoniae, H. influenzae, H. influenzae type B</i> | 12       |
| CTR507ING | Meningitis Viral ELITe Pos. Control         | 12       |           |  |          |
| RTS523ING | <b>Meningitis Viral 2 ELITe MGB® Panel*</b> | 96       |           |  |          |
| CTR523ING | Enterovirus, Parechovirus, Adenovirus       |          |           |  |          |
| CTR523ING | Meningitis Viral 2 ELITe Pos. Control       | 12       |           |  |          |



## Healthcare Associated Infections

Comprehensive multiplex range for nosocomial infection testing and antibiotics resistance detection

| Reference | Product Description                           | Quantity | Reference | Product Description                    | Quantity |
|-----------|---|----------|-----------|--|----------|
| M800351   | <b>MRSA/SA ELITe MGB® Kit</b>                 | 100      | RTS200ING | <b>CRE ELITe MGB® Kit</b>              | 96       |
| M800356   | <i>SA, mecA / mecC</i>                        |          | CTR200ING | KPC, IMP, VIM, NDM, OXA 48             | 12       |
| M800356   | MRSA/SA ELITe Pos. Control                    | 24       |           |  |          |
| M800358   | <b>C. difficile ELITe MGB® Kit</b>            | 100      | RTS201ING | <b>ESBL ELITe MGB® Kit</b>             | 96       |
| M800373   | Toxin A, Toxin B including NAP1/BI/O27 strain |          | CTR201ING | CTX-M 1,9,14 and 15 groups             | 12       |
| M800373   | C. difficile ELITe Pos. Control               | 24       |           |  |          |
|           |   |          | RTS202ING | <b>Colistin ELITe MGB® Kit** (RUO)</b> | 96       |
|           |   |          | CTR202ING | mcr-1, mcr-2                           | 12       |
|           |   |          |           |  |          |



## Gastrointestinal Infections

Complete range dedicated to the detection of the main pathogens responsible for Gastroenteritis

| Reference | Product Description                                   | Quantity | Reference | Product Description   | Quantity |
|-----------|---|----------|-----------|---|----------|
| RTK561ING | <b>Norovirus ELITe Panel</b>                          | 96       |           |   |          |
|           | GI/GII  |          | RTK573ING | <b>Gastrointestinal Bacterial ELITe Panel***</b>                  | 96       |
|           | Pos. Control and internal control included in the kit |          |           | <i>Salmonella, Campylobacter, Yersinia</i>                        |          |
|           |   |          |           | Pos. Control and internal control included in the kit             |          |
| RTK562ING | <b>Gastrointestinal Viral ELITe Panel</b>             | 96       | RTK574ING | <b>Gastrointestinal Parasitic ELITe Panel***</b>                  | 96       |
|           | Rotavirus, Adenovirus, Astrovirus                     |          |           | <i>Gardia lamblia, C. parvum, Entamoeba</i>                       |          |
|           | Pos. Control and internal control included in the kit |          |           | Histolytica Pos. Control and internal control included in the kit |          |



## Genetics

Multiplex assay for the allelic discrimination of the main variants associated with venous thromboembolism : Factor V Leiden, Factor II G20210A, MTHFR C677T

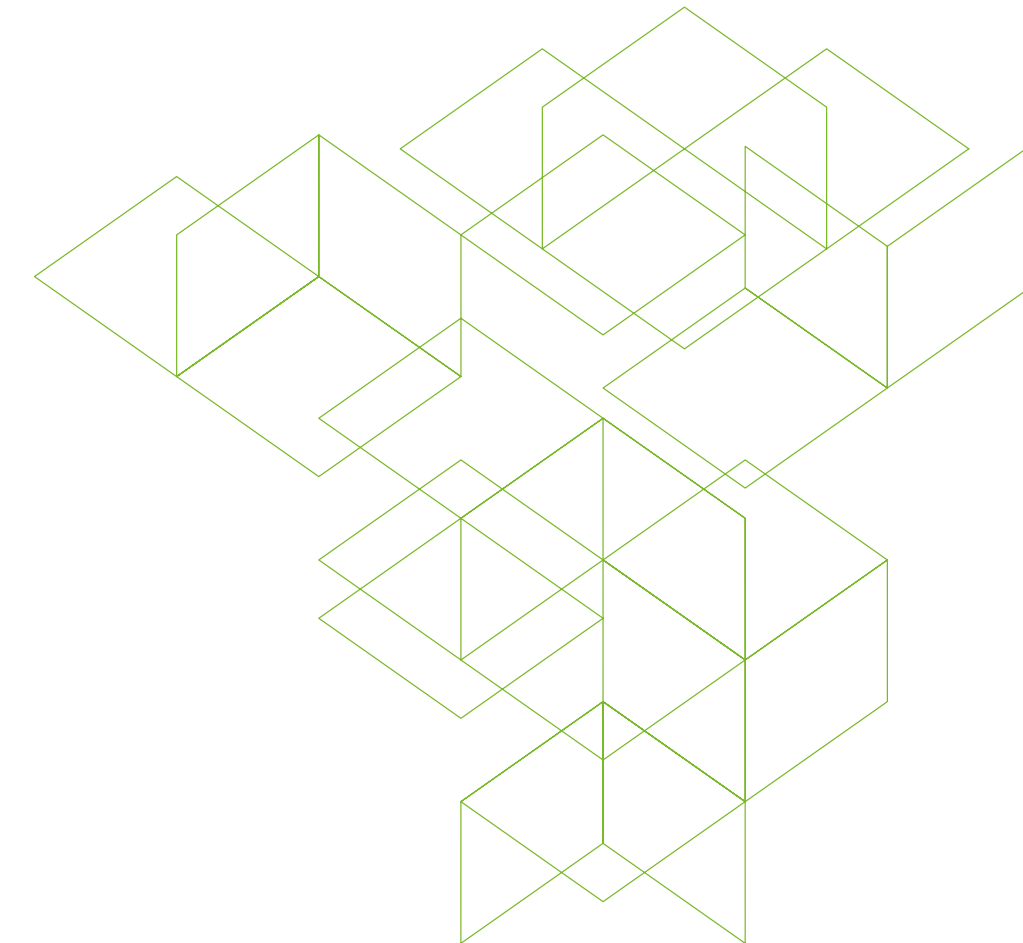
| Reference | Product Description                    | Quantity |
|-----------|--|----------|
| RTSD00ING | <b>Coagulation ELITe MGB® Kit</b>      | 96       |
|           | Factor V, factor II and MTHFR variants |          |
| CTRD00ING | Coagulation ELITe Pos. Control         | 12       |



## Onco-hematology

One-step real-time PCR assays for Chronic Myeloid Leukemia diagnosis and BCR-ABL transcription monitoring : BCR-ABL P210 (b2a2,b3a2) and BCR-ABL P190 (e1a2) including P210 RNA calibrated against the WHO standard

| Reference    | Product Description                | Quantity | Reference    | Product Description                | Quantity |
|--------------|------------------------------------|----------|--------------|------------------------------------|----------|
| RTSG07PLD210 | <b>BCR-ABL P210 ELITe MGB® Kit</b> | 50 x 2   | RTSG07PLD190 | <b>BCR-ABL P190 ELITe MGB® Kit</b> | 50 x 2   |
| STDG07PLD210 | BCR-ABL P210 ELITe Standard        | 12       | STDG07PLD190 | BCR-ABL P190 ELITe Standard        | 12       |
| SPG07-210    | Philadelphia P210 RNA Reference    | 5        |              |                                    |          |



Real-time PCR assay CE-IVD marked in combination with ELITe InGenius, the fully automated sample-to-result solution  
\* ELITe MGB panels are only available in combination with ELITe InGenius \*\* Kits only available for Research Use Only applications \*\*\* Assays in dev.  
Note : 100-test format real-time PCR Kits are validated for 96 tests with ELITe InGenius, the associated 12-test format positive controls are validated for 8 reactions with ELITe InGenius