

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 T_m reproducibly in A-T and G-C rich regions
- Enable reliable, clear and unambiguous meltcurve analysis

ECLIPSE® DARK QUENCHER

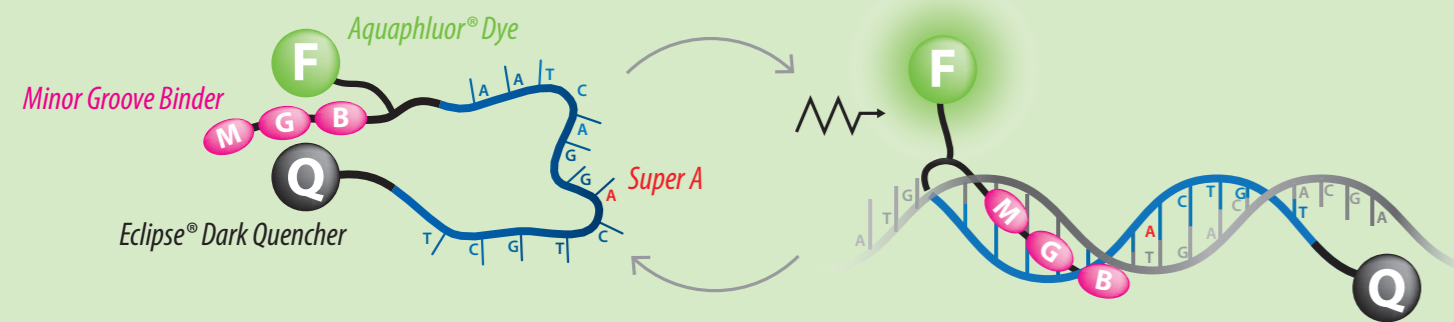
Absorbs the fluorophore energy and dissipates it as heat; while a typical quencher re-emits part of the energy as light

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

ELITE MGB® PROBES*

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



* Luctanov, Nucleic Acids Res. 2007; 35 (5)

AQUAPHLUOR® DYE

Fluorescent compound re-emits 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, Super I and Super N

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 self-association) and fluorescence quenching
- Confer close T_m 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 innovation culture, 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



Gastrointestinal 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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EMPOWERING IVD

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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

SIMPLIFIED workflow in combination with the ELITE InGenius® system



EMPOWERING IVD

EMD-ELITE MGB-300-19JUL210ZEN



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	CMV ELITe MGB® Kit	100	RTS176PLD	JCV ELITe MGB® Kit	100
STD015PLD	CMV ELITe Standard	8	STD176PLD	JCV ELITe Standard	16
CTR015PLD	CMV - ELITe Pos. Control	12	CTR176PLD	JCV - ELITe Pos. Control	12
RTS020PLD	EBV ELITe MGB® Kit	100	RTS078PLD	Adenovirus ELITe MGB® Kit	100
STD020PLD	EBV ELITe Standard	16	STD078PLD	Adenovirus ELITe Standard	16
CTR020PLD	EBV - ELITe Pos. Control	12	CTR078PLD	Adenovirus - ELITe Pos. Control	12
RTS175PLD	BKV ELITe MGB® Kit	100	RTS070PLD	Parvovirus B19 ELITe MGB® Kit	100
STD175PLD	BKV ELITe Standard	16	STD070PLD	Parvovirus B19 ELITe Standard	16
CTR175PLD	BKV - ELITe Pos. Control	12	CTR070PLD	Parvovirus B19 - ELITe Pos. Control	12
RTS031PLD	HSV1 ELITe MGB® Kit	100	RTS076PLD	Enterovirus ELITe MGB® Kit	100
STD031PLD	HSV1 ELITe Standard	16	STD076PLD	Enterovirus ELITe Standard	16
CTR031PLD	HSV1 - ELITe Pos. Control	12	CTR076PLD	Enterovirus - ELITe Pos. Control	12
RTS032PLD	HSV2 ELITe MGB® Kit	100	RTS100PLD	West Nile Virus ELITe MGB® Kit	100
STD032PLD	HSV2 ELITe Standard	16	STD100PLD	West Nile Virus ELITe Standard	16
CTR032PLD	HSV2 - ELITe Pos. Control	12	CTR100PLD	West Nile Virus - ELITe Pos. Control	12
RTS036PLD	HHV6 ELITe MGB® Kit	100	RTST01PLD	Toxoplasma g. ELITe MGB® Kit	100
STD036PLD	HHV6 ELITe Standard	16	CTR01PLD	Toxoplasma g. - ELITe Pos. Control	12
CTR036PLD	HHV6 - ELITe Pos. Control	12	RTS130ING	HEV ELITe MGB® Kit	96
RTS037PLD	HHV7 ELITe MGB® Kit	100	STD130ING	HEV ELITe Standard	8
STD037PLD	HHV7 ELITe Standard	16	CTR130ING	HEV - ELITe Pos. Control	12
CTR037PLD	HHV7 - ELITe Pos. Control	12	RTS110PLD	Aspergillus spp ELITe MGB® Kit	100
RTS038PLD	HHV8 ELITe MGB® Kit	100	STD110PLD	Aspergillus spp ELITe Standard	16
STD038PLD	HHV8 ELITe Standard	16	CTR110PLD	Aspergillus spp - ELITe Pos. Control	14
CTR038PLD	HHV8 - ELITe Pos. Control	12	RTS150ING	Pneumocystis ELITe MGB® Kit	96
RTS035PLD	VZV ELITe MGB® Kit	100	STD150ING	Pneumocystis ELITe Standard	8
STD035PLD	VZV ELITe Standard	16	CTR150ING	Pneumocystis - ELITe Pos. Control	12
CTR035PLD	VZV - 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	STI PLUS ELITe MGB® Kit <i>C. trachomatis, N. gonorrhoeae, M. genitalium, T. vaginalis</i>	96	RTK402ING	High Risk HPV ELITe Panel HPV16, HPV18 and other high risk types. Pos. Control and Primers to detect the internal control included in the kit	96
CTR400ING	STI PLUS - ELITe Pos. Control	12	RTK403ING	HSV1/2 ELITe MGB® Kit HSV1, HSV2, differentiation. Pos. Control and internal control included in the kit	96
RTS098PLD	Chlamydia tr. ELITe MGB® Kit	100			
CTR098PLD	Chlamydia tr. - ELITe Pos. Control	12			
RTS401ING-48	Macrolide-R/MG ELITe MGB® Kit <i>M. genitalium, Macrolide resistance</i>	48			
CTR401ING	Macrolide-R/MG - ELITe Pos. Control	12			



Respiratory Infections

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

Reference	Product Description	Quantity	Reference	Product Description	Quantity
RTS110PLD	Aspergillus spp ELITe MGB® Kit	100	RTS553ING	Respiratory Bacterial ELITe MGB® Panel* <i>M. pneumoniae, C. pneumoniae, L. pneumophila</i>	96
STD110PLD	Aspergillus spp ELITe Standard	16	CTR553ING	Respiratory Bacterial - ELITe Pos. Control	12
CTR110PLD	Aspergillus spp - ELITe Pos. Control	14	RTS140ING	Bordetella ELITe MGB® Kit <i>B. pertussis, B. parapertussis, B. holmesii</i>	96
RTS121ING	MTB EXTRA ELITe MGB® Kit <i>M. tuberculosis</i> Complex	96	CTR140ING	Bordetella - ELITe Pos. Control	12
CTR120ING	MDR/MTB - ELITe Pos. Control	6	RTS150ING	Pneumocystis ELITe MGB® Kit	96
RTS120ING	MDR/MTB ELITe MGB® Kit MTB complex, Rifampicin and Isoniazid Resistance	48	STD150ING	Pneumocystis ELITe Standard	8
CTR120ING	MDR/MTB - ELITe Pos. Control	6	CTR150ING	Pneumocystis - ELITe Pos. Control	12
RTS120PLD	MTB ELITe MGB® Kit <i>M. tuberculosis</i> complex	100	RTS180ING	SARS-CoV-2 PLUS ELITe MGB® Kit SARS-CoV-2, Influenza A, Influenza B, RSV A/B, hMPV	96
CTR120PLD	MTB - ELITe Pos. Control	12	CTR180ING	SARS-CoV-2 PLUS - ELITe Pos. Control	12
RTS160ING	Respiratory Viral PLUS ELITe MGB® Kit Influenza A, Influenza B, RSV A/B, hMPV	96	RTS171ING	SARS-CoV-2 Variants ELITe MGB® Kit	96
CTR160ING	Respiratory Viral PLUS - ELITe Pos. Control	12	CTR171ING	SARS-CoV-2 Variants - ELITe Pos. Control	8
RTS170ING	SARS-CoV-2 ELITe MGB® Kit	240	RTS172ING	SARS-CoV-2 Extended ELITe MGB® Kit °	96
RTS170ING-96	SARS-CoV-2 ELITe MGB® Kit	96	CTR172ING	SARS-CoV-2 Extended - ELITe Pos. Control	8
STD170ING	SARS-CoV-2 ELITe Standard	8			
CTR170ING	SARS-CoV-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	MRSA/SA ELITe MGB® Kit <i>Staphylococcus aureus, mecA / mecC</i>	100	RTS201ING	ESBL ELITe MGB® Kit CTX-M 1,9,14,15	96
M800356	MRSA/SA ELITe Pos. Control	24	CTR201ING	ESBL - ELITe Pos. Control	12
M800358	C. difficile ELITe MGB® Kit Toxin A, Toxin B including NAP1 / BI / O27 strain	100	RTS202ING-48	Colistin-R ELITe MGB® Kit <i>mcr-1, mcr-2</i>	48
M800373	C. difficile ELITe Pos. Control	24	CTR202ING	Colistin-R - ELITe Pos. Control	12
RTS200ING	CRE ELITe MGB® Kit KPC, IMP, VIM, NDM, OXA 48	96			
CTR200ING	CRE - ELITe Pos. Control	12			



Gastrointestinal Infections

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

Reference	Product Description	Quantity
RTK561ING	Norovirus ELITe Panel Genotypes I & II Pos. Control and internal control included in the kit	96
RTK562ING	Gastrointestinal Viral ELITe Panel Rotavirus, Adenovirus, Astrovirus Pos. Control and internal control included in the kit	96



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	Coagulation ELITe MGB® Kit Factor V, Factor II and MTHFR variants	96
CTRD00ING	Coagulation - ELITe Pos. Control	12



Oncohematology

One-step Real-Time PCR assays for diagnosis and monitoring of BCR-ABLt(9;22) positive Leukemia. The products BCR-ABL P190 assay, BCR-ABL P210 assay and P210 RNA calibrator are calibrated against the WHO Standard and are compliant with the European Leukemia Network Standard

Reference	Product Description	Quantity
RTSG07PLD210	BCR-ABL P210 ELITe MGB® Kit	50 x 2
STDG07PLD210	BCR-ABL P210 ELITe Standard	8
CTRG07PLD210	BCR-ABL P210 - ELITe Pos. Control	6
SPG07-210	Philadelphia P210 RNA Reference	5

Reference	Product Description	Quantity
RTSG07PLD190	BCR-ABL P190 ELITe MGB® Kit §	50 x 2
STDG07PLD190	BCR-ABL P190 ELITe Standard	8



Meningitis

Multiplex assays for viral meningitis and encephalitis testing

Reference	Product Description	Quantity	Reference	Product Description	Quantity
RTS507ING	Meningitis Viral ELITe MGB® Panel* HSV1, HSV2, VZV	96	RTS300ING	Meningitis Bacterial ELITe MGB® Kit <i>N. meningitidis, S. pneumoniae, H. influenzae, H. influenzae type B</i>	48
CTR507ING	Meningitis Viral - ELITe Pos. Control	12	CTR300ING	Meningitis Bacterial - ELITe Pos. Control	12
RTS523ING	Meningitis Viral 2 ELITe MGB® Panel* Enterovirus, Parechovirus, Adenovirus	96			
CTR523ING	Meningitis Viral 2 - ELITe Pos. Control	12			

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®

§ Assay under validation on ELITe InGenius®

° RUO

