



Molecular Diagnostics

MGB

ELITE BeGenius

- ◆ Be inspired
- ◆ Be creative
- ◆ **BeGenius**

A simple workflow. More test results per sample.

INTRODUCING THE ELITE *BeGenius*

*Imagine giving your lab
more power and flexibility*



◆ Be inspired

- ▶ Transplant testing made easy
- ▶ A broad portfolio of transplant reagents
- ▶ Qualitative or quantitative testing capable

◆ Be creative

- ▶ 6 optical channels
- ▶ Up to 24 different PCR programs run simultaneously
- ▶ Open and closed mode capable

◆ **BeGenius**

- ▶ Up to 72 results from 12 patient samples
- ▶ Up to 24 samples and nucleic acid extractions per run
- ▶ Eluate storage in onboard cooler unit

REAGENT PORTFOLIO

◆ TRANSPLANT MONITORING

ASRs

- ▶ Adenovirus
- ▶ BKV
- ▶ CMV
- ▶ EBV
- ▶ HHV-6
- ▶ HHV-8
- ▶ HSV 1 & 2
- ▶ JCV
- ▶ Parvovirus B19
- ▶ VZV

RUOs

- ▶ Aspergillus
- ▶ Candida
- ▶ Hepatitis E Virus
- ▶ Mucorales
- ▶ T. gondii

◆ VECTOR-BORNE

MOSQUITO

- ▶ Chikungunya
- ▶ Dengue 1-4
- ▶ Malaria
- ▶ West Nile Virus
- ▶ Zika

TICK

- ▶ Babesia
- ▶ Bartonella
- ▶ Borrelia
- ▶ RF Borrelia
- ▶ Ehrlichia /Anaplasma

◆ RESPIRATORY

ASRs

- ▶ Bordetella P/PP
- ▶ C. pneumoniae
- ▶ hMPV
- ▶ Pan-Legionella
- ▶ Legionella (pneumophila)
- ▶ Pneumocystis

RUOs

- ▶ C. pneumoniae
- ▶ Flu A/B/RSV 2.0
- ▶ Mycoplasma pneumoniae
- ▶ Parainfluenza 1-4
- ▶ SARS-CoV-2 Plus

EUAs

- ▶ SARS-CoV-2

◆ OTHER

ASR/RUO

- ▶ Enterovirus
- ▶ Parechovirus

PERFORMANCE SPECIFICATIONS

| | |
|--|---|
| Time to results | 2.5 hours (12 samples, 12 extractions, up to 24 real time PCRs) 3.0 hours (24 samples, 24 extractions & 24 real time PCRs, 2 extraction cycles) |
| Maximum throughput | 72 results in 8 hours |
| Walk-away time | 2.5 to 3.0 hours |
| Maximum number of tests per run | 24 tests |
| Sample capacity | Up to 24 samples |
| Reagent capacity | Up to 24 real time PCR reagents |
| Operational flexibility | <ul style="list-style-type: none">▶ Integrated barcode readers for full traceability of samples, reagents and eluates▶ Cooled storage of samples, eluates, and reagents for convenient onboard stability▶ Single nozzle pipette design with high volume dispensation and low primary sample dead volume▶ Floor standing wheeled mobile instrument system▶ Bi-directional LIS connectivity |
| Barcodes | Samples Barcode: Code 39; Code 128; Interleaved 2 of 5; Codabar; EAN 128 Reagents |

Contact us at mdx@elitechgroup.com

| CHANNEL/DYE | COMPATIBLE DYES | EXCITATION (NM) | EMISSION (NM) |
|-------------|------------------------------------|-----------------|---------------|
| 1 FAM | FAM, SYBR green, Alexa Fluor 488 | 470 | 510 |
| 2 AP525 | JOE, HEX, VIC | 530 | 555 |
| 3 AP559 | TAMRA, Alexa Fluor 555, NED | 560 | 590 |
| 4 AP593 | ROX, Texas Red | 590 | 630 |
| 5 AP639 | Cy5, Alexa Fluor 647 | 630 | 670 |
| 6 AP690 | Cy5.5, Alexa Fluor 680, Quasar 705 | 670 | 710 |

ENVIRONMENTAL REQUIREMENTS

| | |
|----------------------------------|--|
| Operating temperature | +15 to 30°C |
| Storage temperature | +5 to 40°C |
| Transport temperature | 25° to 60°C |
| Ambient relative humidity | 20 to 80% non-condensing |
| Maximum altitude | 0 to 2000 m (6,562 ft) |
| Noise level | <70 dBA during 24 real time PCR amplifications |
| Operation location | For indoor use only |
| Installation floor | The floor shall be level and be able to withstand a minimum load of 500 kg (1,102 lbs) |

PHYSICAL DIMENSIONS

| | |
|------------------------|------------------|
| Width | 137 cm (54 in) |
| Depth | 86 cm (34 in) |
| Height | 183 cm (72 in) |
| Total weight | 440 kg (970 lbs) |
| LCD touch panel | 31 cm (12 in) |

ORDERING INFORMATION

ELiTe BeGenius® INT040-RUO

ELECTRICAL SPECIFICATIONS

| | |
|------------------------------|---------------------------|
| Maximum power input | 1050VA (1050W) |
| Input voltage | 100-240V AC +/- 10% |
| Max current | 10.5A/100V or 4.57A/230V |
| Frequency | 50/60 Hz |
| Installation category | Over voltage category: II |
| Pollution degree | 2 |
| Laser device | Class 1 |

Contact us at mdx@elitechgroup.com

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