



DU λ LO 32 R²

DU λ LO 32

a trademark of BIOTECON Diagnostics

29.05.2020

 **BIOTECON** Diagnostics

Hermannswerder 17 | 14473 Potsdam | Germany
+49 331 2300 200 | www.bc-diagnostics.com

General:

Dimensions (H, Ø): 22,5 cm, 25 cm
 Weight: 7 kg
 Block: 32 wells; Peltier elements
 Reaction volume: 10-100 µl
 Consumables: clear LP strips = DP
 Temperature range: 37.0 °C – 99.9 °C
 Heating / cooling rate: 5.0 °C/s and 4.0 °C/s
 Detection: CCD camera

Melting curves: Yes
 Multiplexing: Yes
 Software: Customer: User Software;
 BCD: Developer
 System: Windows 10; Multiple cyclers
 can be operated by the same
 computer per Software
 Miscellaneous: Very quiet;
 operation noise < 40 dB (A)

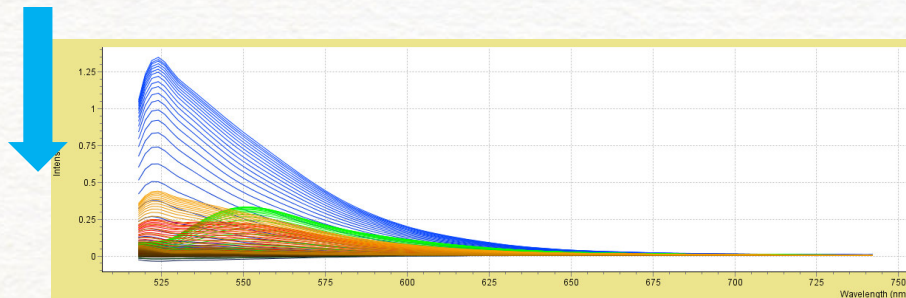
Special:

Excitation: 500 nm blue LED; Full Spectrum Optics
Assays: Hydrolysis probes, hybridization probes
Dyes: FAM, VIC, HEX, TAMRA, Yakima Yellow,
 ROX, ATTO 490Is, LC640, LC705,
 FAM LyoKit, ATTO490LS LyoKit

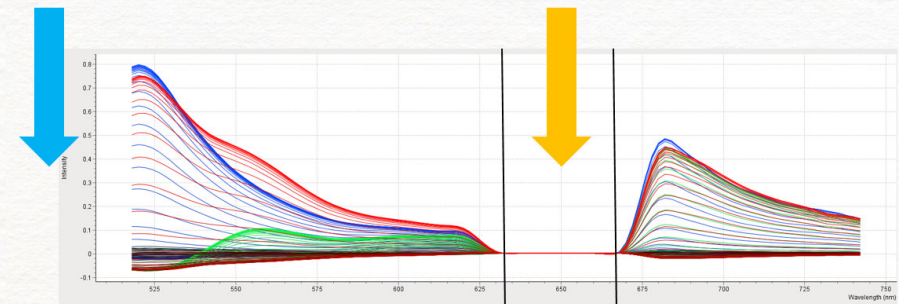


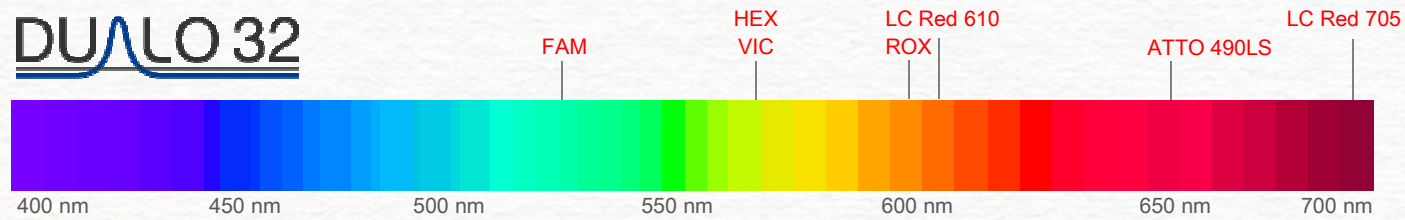
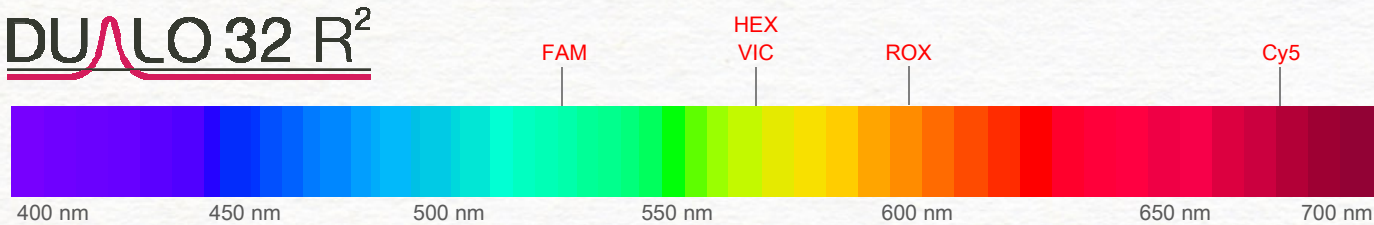
Dual LED excitation, 480 nm and 650 nm
 Hydrolysis probes
 FAM, VIC, HEX, TAMRA, Yakima Yellow, ROX,
 Cy5

Ex. 1



Ex. 1

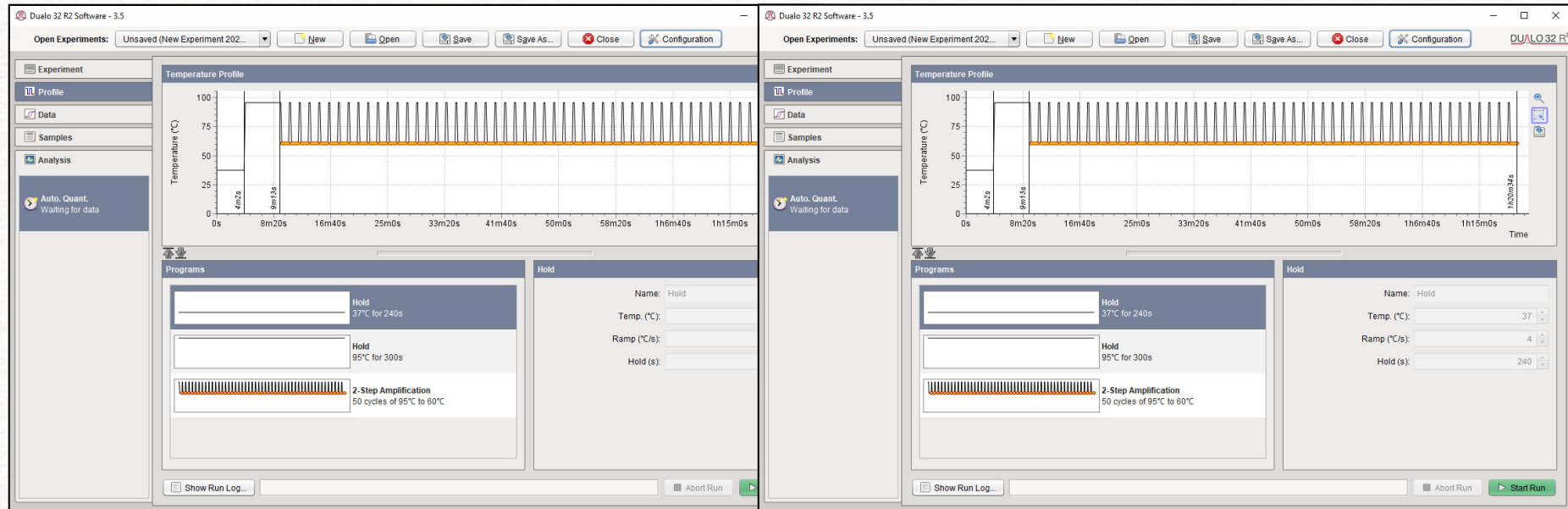


DU λ LO 32DU λ LO 32 R²

Displayed: emission spectra

Cyclers are calibrated with BCD dye chemistry

- no crosstalk
- Multiplexing with 4 channels possible



User Software

Protected software

- Dualo 32/Dualo 32 R² only works with BCD PCR-Kits
- When purchasing device and kits the customer also receives the corresponding template files (includes thermos profile and PCR settings)
→ plug and play + clear results

| | MyGoPro | Dualo 32 | Dualo 32 R ² |
|------------------|---------|-----------|-------------------------|
| Cy5 | NO | NO | YES |
| Crosstalk | YES | NO | NO |
| BCD optimized* | NO | YES | YES |
| Software | Open | protected | protected |
| Beer industry | YES | YES | NO |
| Other industries | NO | NO | YES |
| Availabilitly | - | WW | WW |

* Calibrated with BCD chemistry

Kit Compatibility – kits that were already tested and confirmed to work

DU_ULO 32

Spoilage Organisms

- foodproof *Alicyclobacillus* Detection Kit
- foodproof Beer Screening Kit
- foodproof Beer Screening LyoKit
- foodproof Beer Screening 2 LyoKit
- foodproof Spoilage Yeast Detection 1 LyoKit
- foodproof Spoilage Yeast Detection 2 LyoKit
- foodproof *Dekkera* Quantification Kit
- foodproof Yeast and Mold Quantification LyoKit

Allergens

- foodproof Gluten Detection Kit

Foodborne Pathogens

- foodproof *Listeria monocytogenes* Detection LyoKit
- foodproof *Salmonella* Detection Kit
- foodproof *Salmonella* Detection LyoKit

DU_ULO 32 R²

Allergens

- foodproof Celery Detection Kit
- foodproof Gluten Detection Kit
- foodproof Hazelnut Detection Kit
- foodproof Peanut Detection Kit
- foodproof Soya Detection Kit

Animal Identification

- foodproof Animal Detection 1 LyoKit
- foodproof Porcine Detection LyoKit

Spoilage Organisms

- foodproof Yeast and Mold Quantification LyoKit

Viruses

- foodproof Norovirus Detection Kit (GI, GII)

- microproof SARS-CoV-2 Screening Kit
- microproof SARS-CoV-2 Identification Kit

Kit Compatibility – kits that were already tested and confirmed to work

DU~~U~~LO 32

Spoilage Organisms

foodproof *Alicyclobacillus* Detection Kit
 foodproof Beer Screening Kit
 foodproof Beer Screening LyoKit
 foodproof Beer Screening 2 LyoKit
 foodproof Spoilage Yeast Detection 1 LyoKit
 foodproof Spoilage Yeast Detection 2 LyoKit
 foodproof *Dekkera* Quantification Kit
 foodproof Yeast and Mold Quantification LyoKit

Allergens

foodproof Gluten Detection Kit

Foodborne Pathogens

foodproof *Listeria monocytogenes* Detection LyoKit
 foodproof *Salmonella* Detection Kit
 foodproof *Salmonella* Detection LyoKit

DU~~U~~LO 32 R²

Foodborne Pathogens

foodproof *Salmonella* Detection LyoKit
 foodproof *Salmonella* Detection Kit
 foodproof *Salmonella* Enteritidis & Typhimurium Detection LyoKit
 foodproof *Salmonella* plus *Cronobacter* Detection LyoKit
 foodproof *Salmonella* Genus plus Enteritidis & Typhimurium Detection LyoKit
 foodproof *Listeria monocytogenes* Detection LyoKit
 foodproof *Listeria monocytogenes* Detection Kit
 foodproof *Listeria* Genus Detection LyoKit
 foodproof *Listeria* plus *L. monocytogenes* Detection LyoKit
 foodproof *E. coli* O157 Detection Kit
 foodproof *E. coli* and *Shigella* Detection Kit
 foodproof STEC Screening LyoKit
 foodproof STEC Identification LyoKit
 foodproof *Enterobacteriaceae* plus *Cronobacter* Detection Kit
 foodproof *Cronobacter* Detection LyoKit
 foodproof *Clostridium botulinum* Detection LyoKit
 foodproof *Clostridium* Control Detection Kit
 foodproof *Yersinia enterocolitica* and *Yersinia pseudotuberculosis* Detection Kit

Kit Compatibility – kits that were already tested and confirmed to work

DU~~U~~LO 32

Spoilage Organisms

foodproof *Alicyclobacillus* Detection Kit
 foodproof Beer Screening Kit
 foodproof Beer Screening LyoKit
 foodproof Beer Screening 2 LyoKit
 foodproof Spoilage Yeast Detection 1 LyoKit
 foodproof Spoilage Yeast Detection 2 LyoKit
 foodproof *Dekkera* Quantification Kit
 foodproof Yeast and Mold Quantification LyoKit

Allergens

foodproof Gluten Detection Kit

Foodborne Pathogens

foodproof *Listeria monocytogenes* Detection LyoKit
 foodproof *Salmonella* Detection Kit
 foodproof *Salmonella* Detection LyoKit

DU~~U~~LO 32 R²

GMO

foodproof GMO Screening 1 LyoKit, 3 Targets
 foodproof GMO Screening 2 LyoKit, 5 Targets
 foodproof Plant Taxon Screening LyoKit
 foodproof Plant Detection LyoKit

foodproof GMO Soya Identification 1 LyoKit
 foodproof GMO Soya Identification 2 LyoKit
 foodproof GMO Soya Identification 3 LyoKit
 foodproof GMO RR Soya Quantification Kit
 foodproof GMO RR 2 Yield Soya Quantification Kit
 foodproof GMO A2704-12 Soya Quantification Kit

foodproof GMO Maize Identification 1 LyoKit
 foodproof GMO 35S Maize Quantification Kit
 foodproof GMO Bt176 Maize Quantification Kit
 foodproof SL GMO Maize Multiplex Detection Kit (GA21, ...)
 foodproof SL GMO Maize Multiplex Detection Kit (MON89034, ...)
 foodproof SL GMO Maize Multiplex Detection Kit (MON88017, ...)
 foodproof SL GMO Maize Multiplex Detection Kit (Bt11, ...)
 foodproof SL GMO Maize Multiplex Detection Kit (T25, ...)

Kit Compatibility – kits that were already tested and confirmed to work

DUALO 32

Spoilage Organisms

- foodproof *Alicyclobacillus* Detection Kit
- foodproof Beer Screening Kit
- foodproof Beer Screening LyoKit
- foodproof Beer Screening 2 LyoKit
- foodproof Spoilage Yeast Detection 1 LyoKit
- foodproof Spoilage Yeast Detection 2 LyoKit
- foodproof *Dekkera* Quantification Kit
- foodproof Yeast and Mold Quantification LyoKit

Allergens

- foodproof Gluten Detection Kit

Foodborne Pathogens

- foodproof *Listeria monocytogenes* Detection LyoKit
- foodproof *Salmonella* Detection Kit
- foodproof *Salmonella* Detection LyoKit

DUALO 32 R²

GMO

- foodproof SL GMO MON810 Maize Detection Kit
- foodproof SL GMO MON89034 Maize Detection Kit
- foodproof SL GMO NK603 Maize Detection Kit
- foodproof SL GMO TC1507 Maize Detection Kit
- foodproof SL GMO DAS59122-7 Maize Detection Kit
- foodproof SL GMO A2704-12 Soya Detection Kit

Thanks for your attention!