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Diagnos

foodproof®

D-Light

Reagent D



## For safer food - BIOTECON Diagnostics

### Differentiation of DNA from dead and living cells

The **foodproof® D-Light** instrument is designed for the differentiation of DNA from dead and living cells. The reaction principle is a photoactivation using Reagent D to avoid false-positive PCR results. **Reagent D** contains a light sensitive substance which can only penetrate the cell membranes of dead cells. Exposure to visible light leads to covalent binding of this substance to DNA and prevents the DNA from being amplified via PCR. It works as a preliminary step of sample treatment before the DNA extraction. The stand-alone **foodproof® D-Light** is a compact benchtop solution that fits in every lab.

BIOTECON Diagnostics offers its customers complete workflow solutions, either via manual or automated sample preparation. The combination of the **foodproof® D-Light** and Reagent D, **foodproof®** DNA extraction kits and subsequent real-time PCR detection kits and all assay-required laboratory equipment represents a true "One-Stop-Shop" solution for the customer.

**Fast:** Up to 96 samples can be processed simultaneously

**Convenient:** Just insert plate and close lid, program starts automatically

**Versatile:** Insertion slide-in allows use of different microplates and adapter in SBS format e.g. deepwell plates

**Safe:** Secure sample workflow; no ice needed, as no development of heat; reduced risk of cross contamination

**Economic:** LED with very low energy consumption of just 9 W

**Approved:** Tested and certified for CE/FCC and product safety

#### Applications using foodproof® D-Light

- Enterobacteriaceae
- Cronobacter
- Salmonella
- E. coli
- Shigella
- Vibrio
- Yeast & Mold

Please contact BIOTECON Diagnostics for application details

A T C A T C G T A T C C A T C C C T A T C C A T C C C T  
T C A T C C C T A T C G C T T C C A T C T G C T T C A  
A T C T T C A T C C G T A T C T G C T C C A T C T G C T  
C C A T T T C A T C C G T A T C  
G C T T C C A T C C C T A T C G C  
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



**BIOTECON** Diagnostics

## Workflow



**Enrichment/  
Subcultivation**



**Reagent D  
Treatment**



**DNA Extraction**



**Real-time PCR  
Detection**

### Specifications D - Light

Dimensions (W x D x H)	140 mm x 232 mm x 90 mm
Weight	1.6 kg
Electrical data	100-240 VAC, 50/60Hz, 1.0-0.5A, 15VDC, 0.8A
Power demand (standby)	0.3 W
Power demand (while running)	9.0 W
Working temperature range, humidity	5 – 40 °C; 35 – 75 % rel. humidity
Storage temperature range, humidity	0 – 65 °C; 35 – 75 % rel. humidity
Time set for dark and blue phase	0 – 99 minutes for dark and
Acoustic signals	Signal after initialization and
Temperature control	Active control, shutdown at 50 °C
Voltage control	14.2 to 15.8 V
Outage detection	LED outage

### Order Numbers

D 110 45 **foodproof®** D-Light  
A 500 02 Reagent D

Available through BIOTECON Diagnostics:

### Robotic System

Applications and technical service

### DNA Extraction & Detection Kits

For foodborne Pathogens, GMO, Allergen, Animal ID, etc.

### Additional

All necessary reagents and consumables

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