Speedy Breedy Specification

Speedy Breedy Unit Specification
Measurement down to 1 CFU
Fast detection (*1) - surpasses conventional culture method times
Chamber test temperature control: 5° C below ambient to +45° C
Two chambers can run independent tests simultaneously
Paddle speed control: 0 rpm to 120 rpm
Pressure safety cut-off 1.8 bar
Physical Thermal cut off switch to avoid overheating
Pasteurisation protocol (*2) at +65° C to render culture vessels safe for disposal as per local regulations
Downloadable online firmware updates
Audit trail of results on SD card, which automatically transfer to tablet/computer when connected
Speedy Breedy Unit Physical Specification
Weight of Speedy Breedy unit: 2.75 kg
Weight of packaged unit (incl. Power cables, 8 vessels, manual, etc.): 5.4 kg
Dimensions: H: 13.3 cm, W: 31 cm, D: 11.2 cm
SD Card: 2 GB
USB connection
Compatible with 12V DC or local mains AC power supply (Europe: 230 V / 50 Hz, North America: 120 V / 60 Hz, etc.)
Speedy Breedy Culture Vessel Specification
Sample size: 50 ml
Detects: aerobes, anaerobes and facultative anaerobes
Tests: Liquids, Swabs, macerated meat, opaque liquids, ect
Sealed Vessels (sterile - gamma irradiated): Single-use only
Totally enclosed for safe use in any environment
Inoculation port: 6 mm diameter
Septum will self-seal with a 0.8 mm (21G) needle or smaller
Vessel storage: +2° C to +30° C
Notes
(*1) Typical detection times vary across bacteria type and levels of contamination.
(*2) The pasteurisation protocol does not destroy spore-forming bacteria or extreme thermophiles. Pasteurization does also not apply to Broad Spectrum Medium vessels
(*3) Depending on the users selected media.

Speedy Breedy is a registered trademark of BACTEST Limited,
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Speedy Breedy Culture Vessel Specification				
Sample Test	Selective pre-populated media, TVC and Empty vessels:	Enumeration feature capability	Sensitivity CFU in 50ml	Presence Absence
Sterility and Hygiene	Broad Spectrum Medium	N	1	Y
E.coli	*E.coli* and Coliform Selective Medium	Y	1	Y
Coliforms	*E.coli* and Coliform Selective Medium	N	1	Y
Pseudomonas aeruginosa	*Pseudomonas aeruginosa* Selective Medium	Y	1	Y
Salmonella	*Salmonella* Selective Medium	N	1	Y
Listeria	*Listeria* Selective Medium	N	1	Y
Staphylococcus	*Staphylococcus* Selective Medium	N	1	Y
Toxigenic *Vibrio cholerae*	Toxigenic *Vibrio cholerae* Selective Medium	N	1	Y
Clostridium perfringens	*Clostridium perfringens* Selective Medium)	N	1	Y
Lactic Acid Bacteria	Lactic Acid Bacteria Selective Medium	N	1	Y
Enterococci	*Enterococcus* Selective Medium)	Y	1	Y
Campylobacter	*Campylobacter* Selective Medium	N	1	Y
All Yeasts	All Yeast Selective Medium	N	1	Y
Wild Yeasts	Wild Yeast Selective Medium	N	1	Y
Empty Aerobic Vessel	Medium selected by user	Y/N (*3)	1	Y
Empty Anaerobic Vessel	Medium selected by user	Y/N (*3)	1	Y
Software & Computer Specification Requirements				
Languages supported: English, German, Chinese (Mandarin)				
Single license can work with multiple Speedy Breedys				
Range of Protocols				
Range of Calibration curves				
Downloadable online software updates				
Downloadable online calibration curve updates				
Protocol development feature				
Calibration development feature				
Email facility to send notification when contamination is detected (requires tablet/computer and internet connection)				
Enumeration feature available for certain bacteria to show estimated CFUs in a sample				
Computer minimum spec: > Windows XP				
Tablet minimum spec: > Full Windows 8				
Compatible port: USB 2				
RAM: minimum 1 GB				
Free disk space: minimum 1 GB				
Processor: minimum 1 GB				
Manufacturing Accreditations				
ISO9001 manufactured Speedy Breedy units				
ISO9001 manufactured Speedy Breedy culture vessels				
CE Marked - Speedy Breedy units comply with the low voltage directive				

BACTEST: turning microbial activity into data

BACTEST designs develops and markets microbial respirometry products based on its proprietary patented technology platform.

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