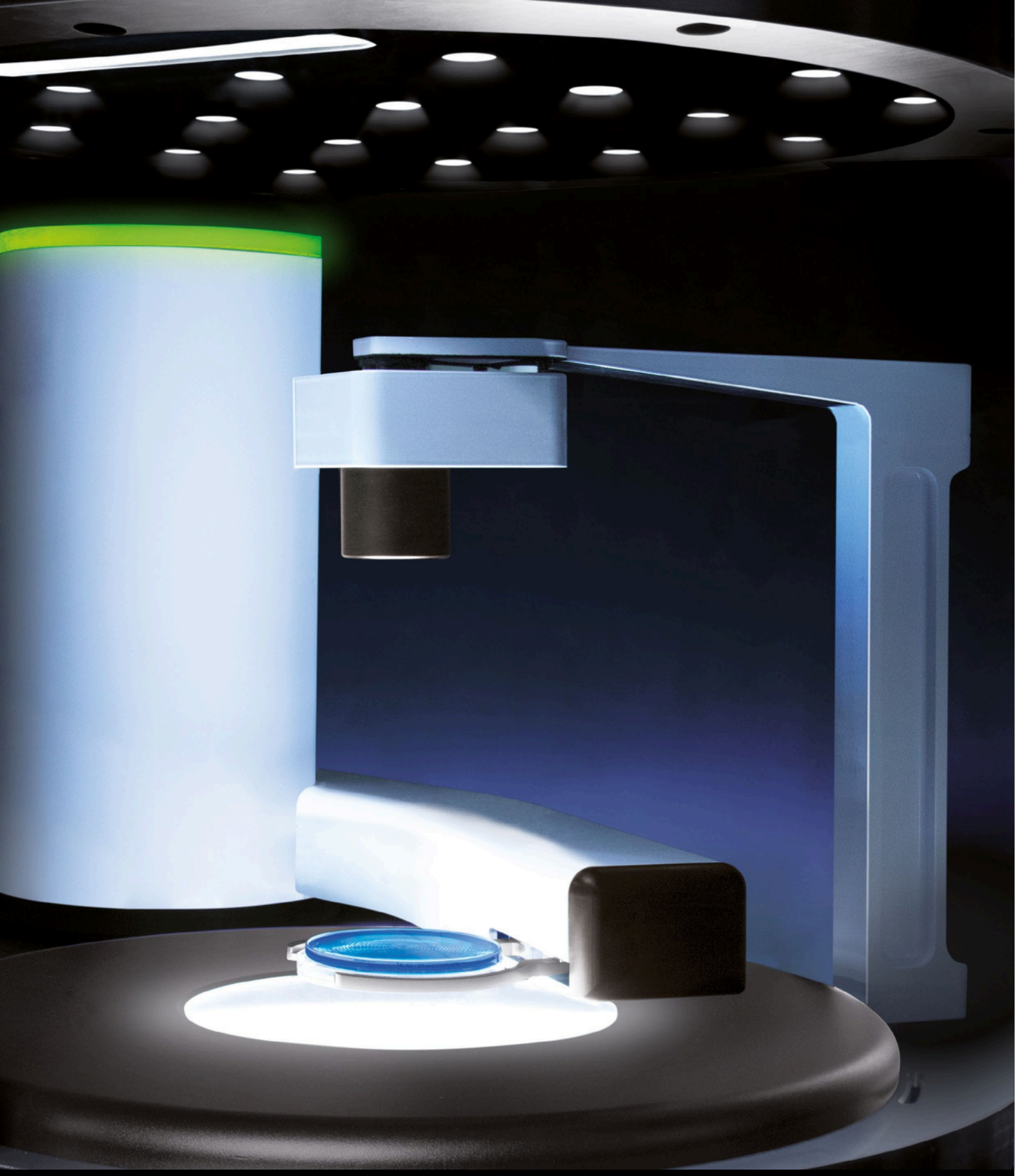
ScanStation

Real-time incubator and colony counter

The real-time revolution!

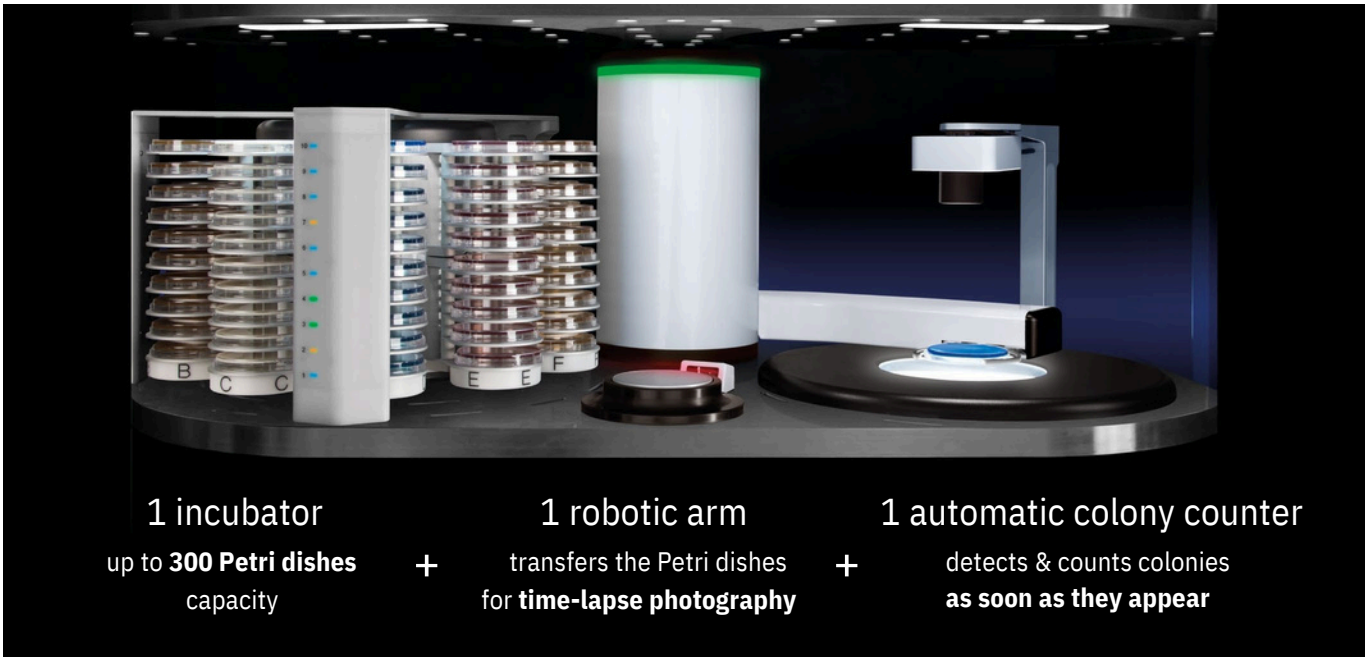
interscience



interscience

- Over 40 years of microbiology expertise
- World leader in automatic colony counters
- Made in France in our R&D center & manufacturing plant

SCIENTIFIC
EQUIPMENT
MANUFACTURER
MADE IN FRANCE



1 incubator
up to **300 Petri dishes** capacity

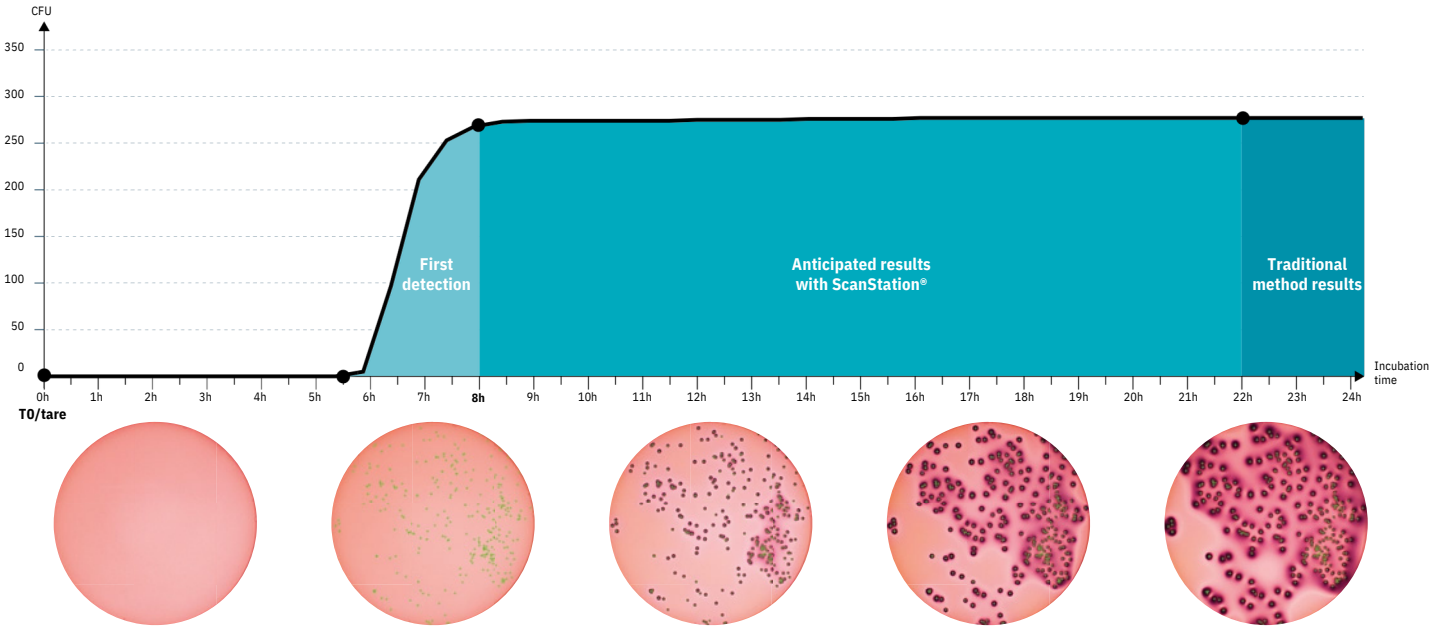
+

1 robotic arm
transfers the Petri dishes for **time-lapse photography**

+

1 automatic colony counter
detects & counts colonies **as soon as they appear**

ScanStation® is a real-time incubator and colony counting station centralizing **incubation**, **detection** and **counting of up to 300 Petri dishes** simultaneously. Petri dishes are counted every 30 min* throughout the process. **Colonies are detected as soon as they appear.** E.g. below: Coliforms on VRBL agar incubated at 37 °C



Discover bacterial growth hour by hour and see the video during and after incubation. Data are archived and available throughout incubation up to final validation of the results in the following formats: **LIMS, mp4, pdf, jpeg, png, bmp and csv.**

3x
sooner
Results in 8 h instead of 24 h

faster
Up to 300 Petri dishes counted together

accurate
Elimination of artefacts

equal
Keep your agar & method

* every 1 h for ScanStation® 300

PATENTS PENDING

Real-time bac

Rotating Petri carousel
Record-breaking capacity of 300 Petri dishes

Insulated panoramic window
Easy process monitoring

Thermoregulated incubator
Peltier module ± 1 °C refrigerated incubator

No compressor

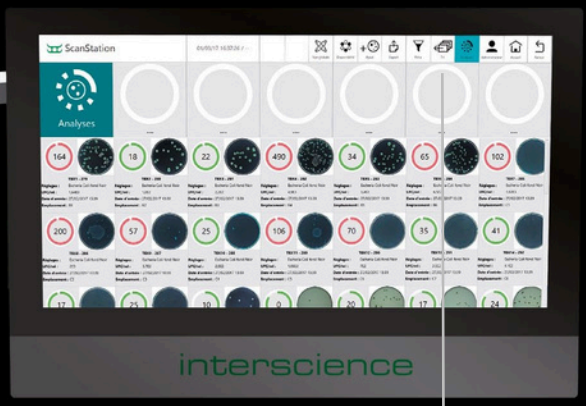
Storage unit
For computer, UPS, accessories

Easy installation
Simply plug in the 100-240V~ power cord.

terial monitoring

High speed robotic arm

Automated plate handling
from incubation to counting



Real-time bacterial growth

Touch screen with real-time video
of the process
24/7 operation

Ultra-HD camera

Reflection free LED lighting
5 megapixel sensor

Pressure-sensitive gripper

Automatically adapts to right-side up
or upside down Petri dishes
No settings

Bar-code reading

Automatically retrieves sample data
Connectable with LIMS, dataLinkTM

Key features

Mono or multi-batch

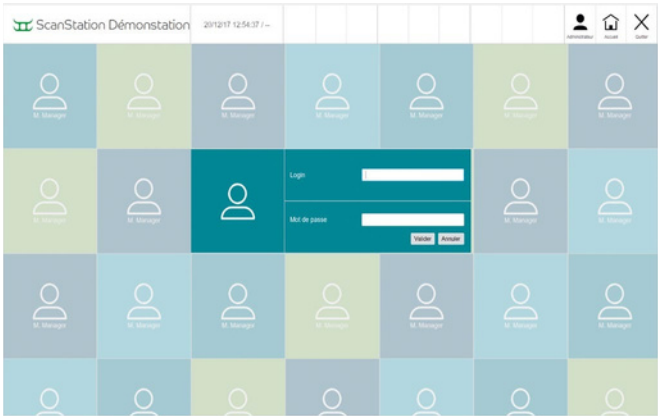
The loading of Petri dishes can be done at the beginning or during the incubation, with different light or incubation duration settings.

For example, you can load 70 contact plates on day 1 for 5 days of incubation. On day 2, add 20 ø 90 mm Petri dishes for 2 days of incubation, and have several batches running together with different settings.

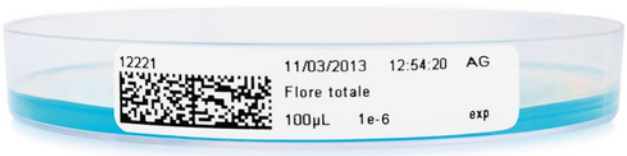
Data integrity

ScanStation® is a breakthrough in data integrity: images and video of the bacterial growth are saved, from the start to the end of the incubation. You can recover the data beyond the incubation date.

The bacterial growth video helps validate the results by showing the distinction between a particle and a bacterium, avoiding false positives. Images taken at regular intervals make it possible to visualize the beginning of the growth of micro-organisms such as molds in order to facilitate counting.



ScanStation® software complies with FDA 21 CFR Part 11 guidelines. It allows electronic signatures, audit trails and encrypted data for security reasons. You can assign different to users rights depending on the access levels.



dataLink™

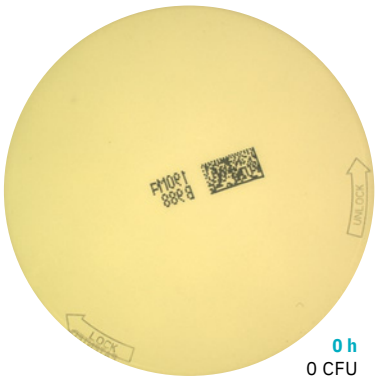
The integrated bar-code reader can read most of 1D/2D barcodes on the market, including QR codes and datamatrix. For the pharma industry, prelabelled Petri dish from bioMérieux, Merck Millipore and BD can be read to integrate the data from the sample, to gain productivity and security, when connected with a LIMS.

When used in combination with a Spiral® plater, Interscience's dataLink system can also be used to transfer data from plating to ScanStation®. It avoids double data entry, which is a source of error and time loss.

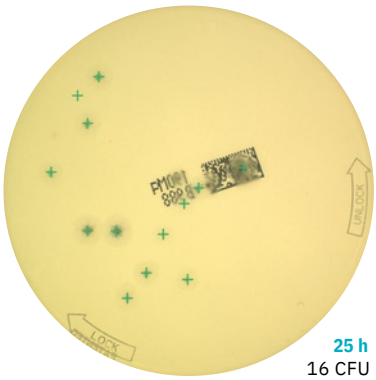
Pharmaceutical
Anticipated results and data integrity

ScanStation® is used in pharmaceutical labs. It allows bacterial detection during incubation..

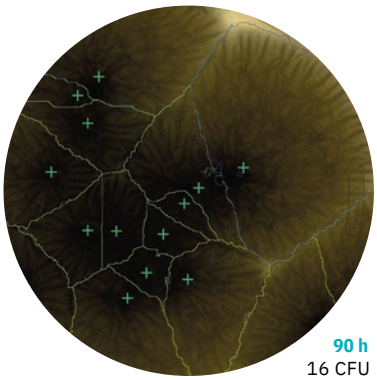
Protocol: Tests have been carried out in pharmaceutical laboratories in order to work on the early detection of the 5 germs of the pharmacopoeia. Different samples are compared to identify a "Time to result".



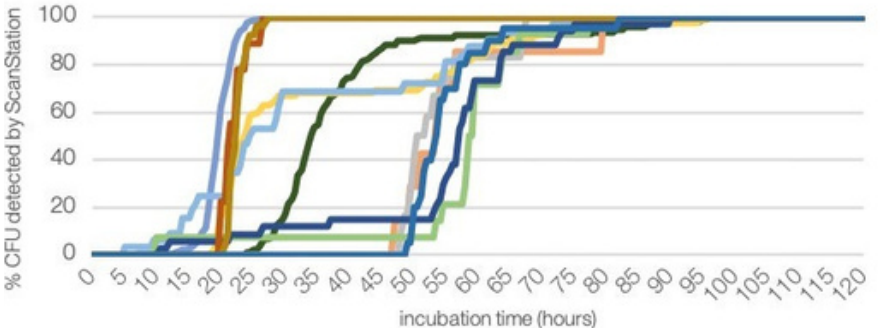
0 h
0 CFU



25 h
16 CFU



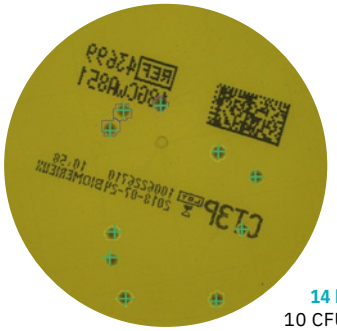
90 h
16 CFU



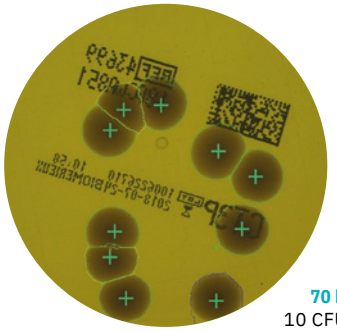
Time to result of 11 samples of Aspergillus brasiliensis

- Average detection in 40 hours.
- 85% of the countings make a stable and reliable CFU result at 65 hours instead of 7 days.

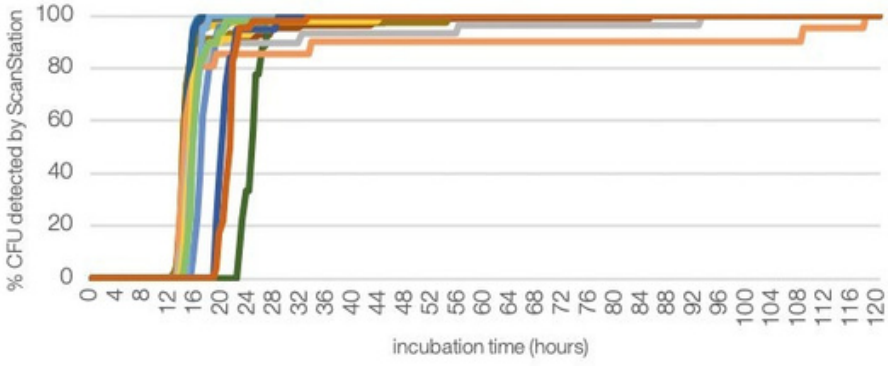
0 h
0 CFU



14 h
10 CFU



70 h
10 CFU



Time to result of 19 samples of Escherichia coli on contact plates

- Average detection in 16 h.
- 85 % of the countings make a stable and reliable CFU result at 25 hours instead of 5 to 7 days.

Application: Environmental monitoring of clean rooms, air and surface

- **Anticipated results**
- **Data integrity by saving images of Petri dishes**

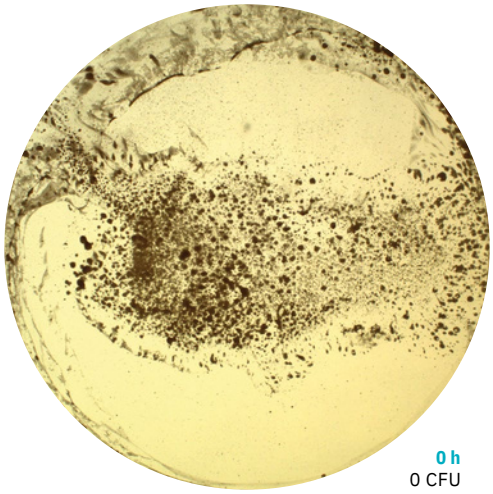
*Time to result : Average time of the anticipated results on several samples

Application notes available on www.interscience.com

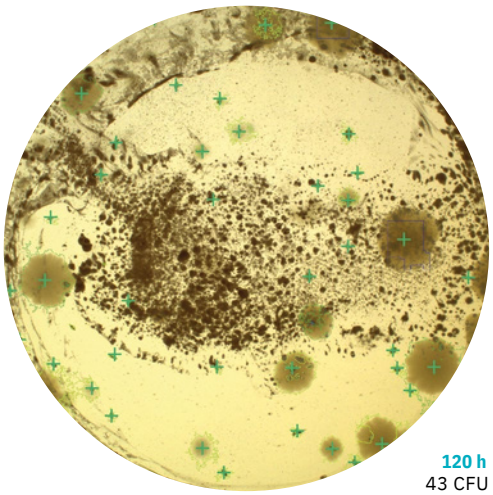
Cosmetics
Particles removed

ScanStation® is popular in cosmetics because it allows the removal of particles and matrix effects. Reading is therefore facilitated by the T0 image and real-time monitoring using photos taken at regular intervals isolating bacterial kinetics.

Protocol: Tests were conducted in cosmetic laboratories to evaluate the performance of the ScanStation®. A method comparison was performed on the 5 reference strains and according to the cosmetic reference system.

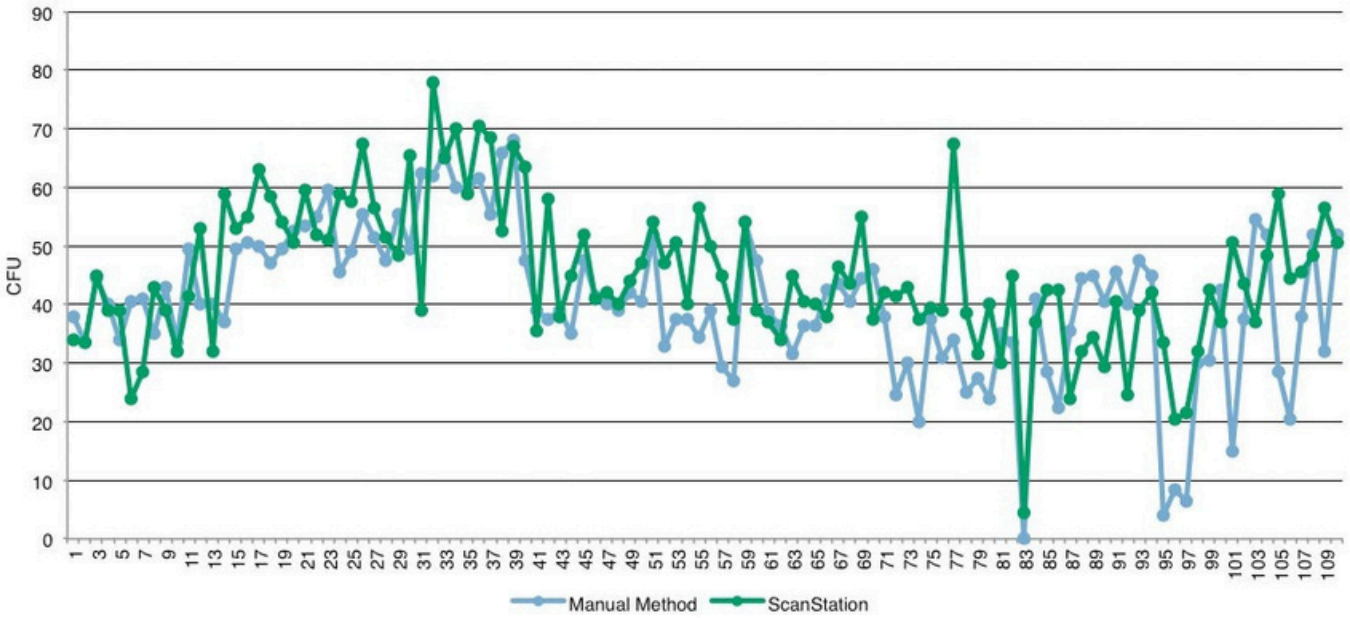


0 h
0 CFU



120 h
43 CFU

Reading comparison of Escherichia coli between the manual method and the ScanStation®



The reading interpretation of Escherichia coli demonstrates that 96.3% of the results are withing a 0.3 log difference.

Application:

Analysis of all cosmetic matrices

Challenge tests in R&D

Raw material quality control and finished product

- **Anticipated results No significant difference between manual reading and reading with the ScanStation®**
- **Discriminate particles and colonies, and results closer to the true count (verified by growth video)**

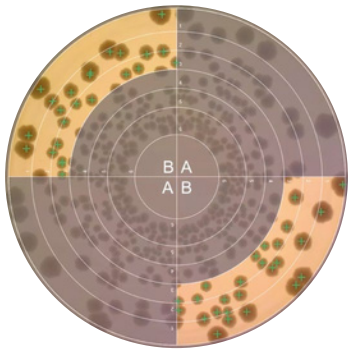
Application notes available on www.interscience.com

Food
Automation and better production management

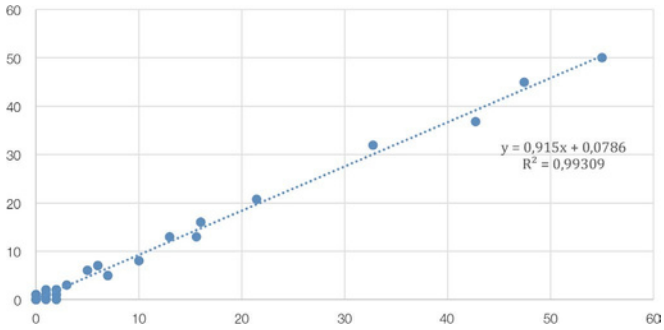
ScanStation® is appreciated in food laboratories. During incubation, the ScanStation® takes regular images of the Petri dish to isolate bacterial kinetics.

Protocol: Analyses were carried out in food laboratories specialized in dairy products. A method correlation was performed for this study.

ScanStation® counting on Spiral® plating



Manual/ScanStation® counting correlation graph



Application:
Manual method or Spiral® method
Quality indicators of all food samples
PCA, MRS, VRBL, TBX agar

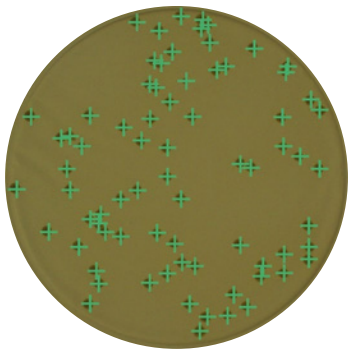
- **Anticipated results**
- **No significant difference between manual reading and reading with the ScanStation®**
- **Productivity by automation of colony counting**

Environment
Anticipated results

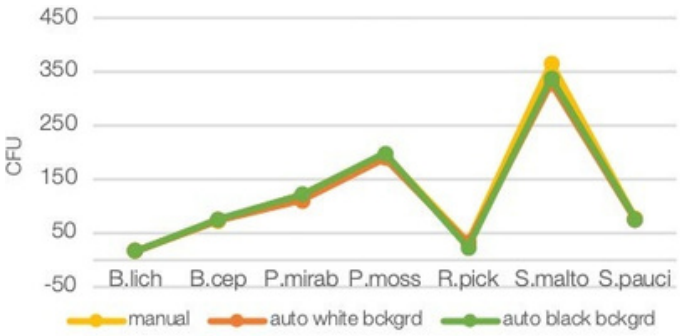
ScanStation® is popular for environmental analysis. During incubation, the ScanStation® takes regular images of the Petri dish to isolate bacterial kinetics. The associated video allows early detection and facilitates endpoint validation.

Protocol: A performance study was carried out on different filtration membranes (multiple brands and colors).

ScanStation® counting
on polycarbonate filtration membrane



Count of 7 bacterial strains
on white membrane without grid



Application:
Environment water
Drinking water

- **Anticipated results**
- **No significant difference between manual reading and reading with the ScanStation®**

Application notes available on www.interscience.com

3 models

ScanStation® 100

100 Petri dishes capacity

Ref 439 100

ScanStation® 200

200 Petri dishes capacity

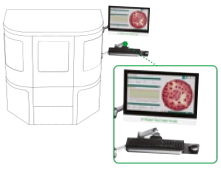
Ref 439 200

ScanStation® 300

300 Petri dishes capacity

Ref 439 300

Accessories

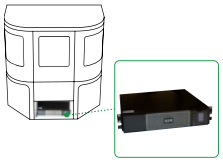


Stand for screen and keyboard
For great ergonomics

Ref 439 110

Storage furniture
Storage of the computer and accessories

Ref 439 120



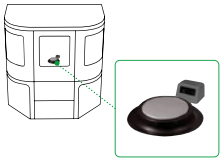
Uninterrupted power supply

In case of power cut

Ref 439 140 (220V)
Ref 439 145 (110V)

dataLink ™ pro
Traceability system with semi-automated labeling.

Ref 439 050



Code reader
Bar-code reader (1D) and datamatrix reader (2D)

Ref 439 170

21 CFR Part 11 module
Audit trail, validation of results and management of the software

Ref 800 700

IQOQPQ
IQOQPQ document. For IQOQ service, please contact us.

ScanStation® 100 - Ref 8ISS1011
ScanStation® 200 - Ref 8ISS2011
ScanStation® 300 - Ref 8ISS3011

Disinfection unit
The nebulizer is placed inside the ScanStation® and disifects with H2O2 (to avoid cross contamination)

Nebulizer - Ref 439 060
Stand for nebulizer - Ref 439 061
Disinfectant for nebulizer - Ref 439 062

Adaptor for Petri dishes x10
Ø 54 mm - Ref 439 022 Ø 55 mm - Ref 439 023 Ø 56 mm - Ref 439 024 Ø 57 mm - Ref 439 025 Ø 58 mm - Ref 439 026 Ø 66 mm - Ref 439 034

Adaptor for contact plate (Ø 65 mm) - Ref 439 040

Set of Adaptors - Ref 439 021

Technical specifications



	ScanStation®		
	100	200	300
OVERVIEW			
Reference	439 100	439 200	439 300
Electronic locking door	✓	✓	✓
Pressure sensitive gripper to fit any type of Petri dish	✓	✓	✓
Internal light: white LEDs	✓	✓	✓
First carousel petal block removable	✓	✓	✓
Compatible with dataLinkTM pro traceability system	✓	✓	✓
Telecentric lens	-	-	✓
Accurate counting around the edges of Petri dish	-	-	✓
SPECIFICATIONS			
Capacity	100 Petri dishes	200 Petri dishes	300 Petri dishes
Reading time in between Petri dishes	30 minutes or 1 hour		1 hour
Petri dish size	Ø 90 mm right-side up or upside down and Ø 55-65 mm (with adaptor)		
Type of plating accepted	Pour plate, surface, Spiral® and filtration membrane		
Loading	Single or multi-batch		
Camera resolution	5 megapixels		
Interface	23 inch touch screen		
Software	ScanStation® software		
Languages	English, French, Japanese, Chinese, Spanish, German		
Video player	Play, zoom, pause, replay, during and after incubation		
Included computer system	PC Windows 10 LTSC desktop with Intel i7 processor		
Incubation temperature	20 °C to 45 °C (68 °F to 113 °F)		
Accuracy of incubation temperature	± 1 °C (checked by a 9-point mapping system)		
Recording temperature	Every minute		
Heating and cooling technology	Peltier modules, compressor free		
Storage conditions	In a ventilated room, between 18 °C and 25 °C (64.4 °F and 77 °F)		
Max. external humidity temperature	70%		
Max. incubation time	10 days		
Voltage - frequency	100-240 V~ 50-60 Hz		
Warranty	1 year		
Software updates	3 years (after recording the warranty card)		
Spare parts availability	10 years		
In compliance with	21 CFR Part 11		
Manufactured under	CE, UKCA, RoHS, WEEE, FCC, NRTL North America		
DATA TRACEABILITY			
Export formats			
Data transfer via USB link			
	mp4 video, pdf report, jpeg, png or bmp images, csv or xls text		
	LIMS, dataLinkTM		

Delivered with: 1 computer and its power cable, 1 Wi-Fi antenna connected to the computer, 1 monitor with its power cable, 1 Display Port cable, 1 USB 3 cable, 1 wireless keyboard, 1 wireless mouse, 1 dongle for keyboard and wireless mouse, 1 mains power cable, 1 temperature map, 1 user manual, 1 maintenance kit including 1 optical cleaner bottle and 1 grease pump, 1 test pattern, 1 conformity certificate / warranty card.

Demos and training welcome: please contact us!

Certified production

WEEE 2002/96/EC RoHS 2002/95/EC MADE IN FRANCE CE

Product made for INTERSCIENCE
by Interlab, an ISO 9001 certified company.

ScanStation® 100

ScanStation® 200

ScanStation® 300

INNOVATION
AWARD WINNER
FORUM LABO exhibition 2017

GENERAL PUBLIC
AWARD WINNER
FORUM LABO exhibition 2017

DESIGN OBSERVER
LABEL

INNOVATIVE COMPANIES
AWARD WINNER
CCI / La Montagne 2017

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