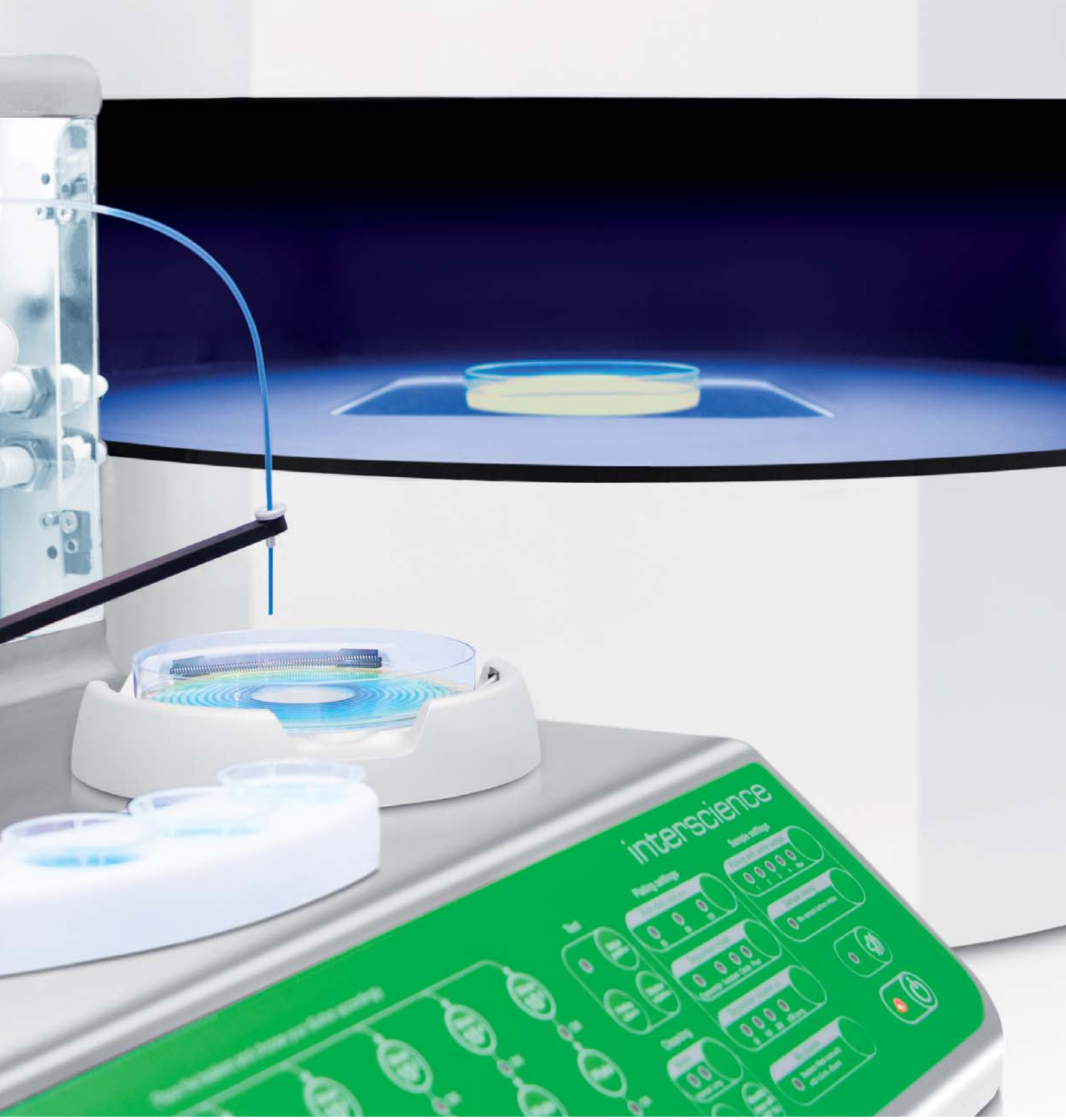
Plate & Count system®

Automatic bacterial enumeration

The winning team
from sample to result

Thomas Scientific

interscience



interscience

- Designer and manufacturer for over 40 years
- From sample prep to microbiological analysis
- Immediate delivery around the world
- Designed and made in France

MADE IN FRANCE

Fast bacterial enumeration with **Plate** & **Count** system®

Automatic plating
with easy**Spiral**®

Traceability system
with data**Link**™

Colony counting
with **Scan**®

The **Plate** & **Count** system® with **automatic diluting, plating and colony counting** are now the perfect solution when it comes to meeting efficiency and traceability requirements for microbiological analyses.

Boosting your lab work with top-of-the line technology made in France, easy**Spiral** Dilute® innovative automatic diluter and plater, data**Link**™ traceability system and **Scan**® automatic colony counters, this fully automated system will guarantee your customers with fully extensive, traceable and reliable results.

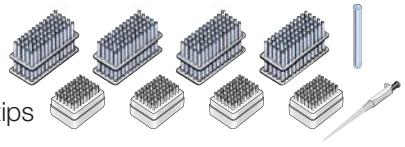
- **75% time-saving and consumables savings**
- **Secured and traceable bacterial results**
- **Top-of-the-line technology made in France**

Why use **Plate** & **Count** system®?

Comparison for 150 samples between the manual and the automatic **Plate** & **Count** system® method.

Manual method

Dilution
- 450 tubes
- 450 pipet tips



4 h

Plating
- 450 Petri dishes

+ 4 h

Counting

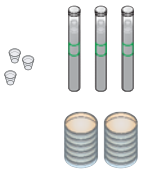
+ 6 h

Total time **14 h**

Automatic method

No manual dilution with automatic **Spiral**® method (see p6)

Plating
- 150 small beakers
- 150 Petri dishes



2 h

Counting

+ 2 h

Total time **4 h**

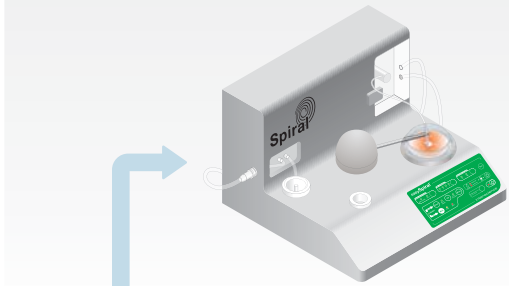
Configure your **Plate** & **Count** system®

PLATE

Automatic sample plating

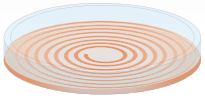
TRACE

Data traceability

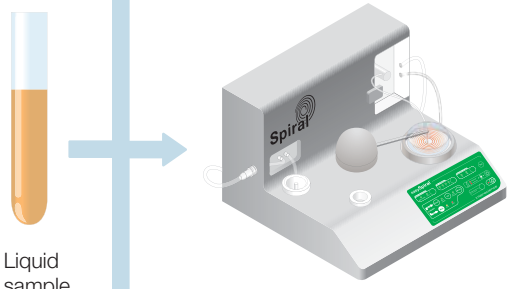


easy**Spiral**® *
Ref 412 000

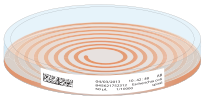
Without traceability



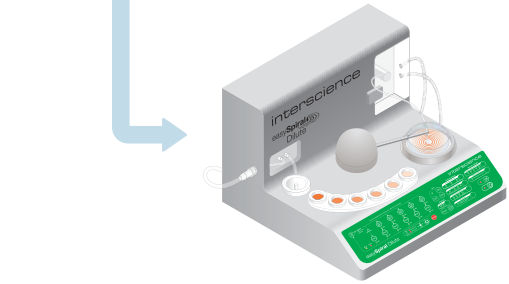
Liquid sample



easy**Spiral Pro**®
Ref 413 000



Traceability with data**Link**™
Ref 410 100



easy**Spiral** Dilute®
Ref 414 000

COMPLIANT WITH

ISO 7218 | ISO 4833-2 | AOAC 977.27 | FDA BAM Bacteriological Analytical Manual | CFR 21 Part 11

Certified production

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

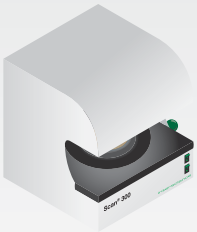
* Without traceability

COUNT

Automatic colony counting

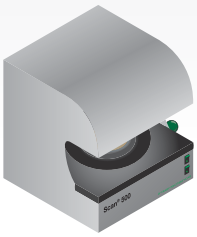
RESULT

Automatic saving of counting data



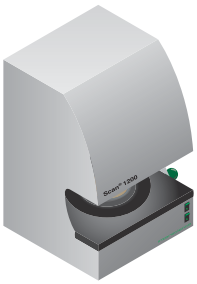
Scan® 300
Ref 436 300

Incubation



Scan® 500
Ref 436 000

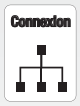
Incubation



Scan® 1200
Ref 437 000

Scan® 4000
Ref 438 000

Scan® software



LIMS
connection

Audit
trail

Saving and archiving
of the sessions

PDF
export

JPEG, PNG
& BMP export

Excel™, OpenOffice™,
LibreOffice™ results export

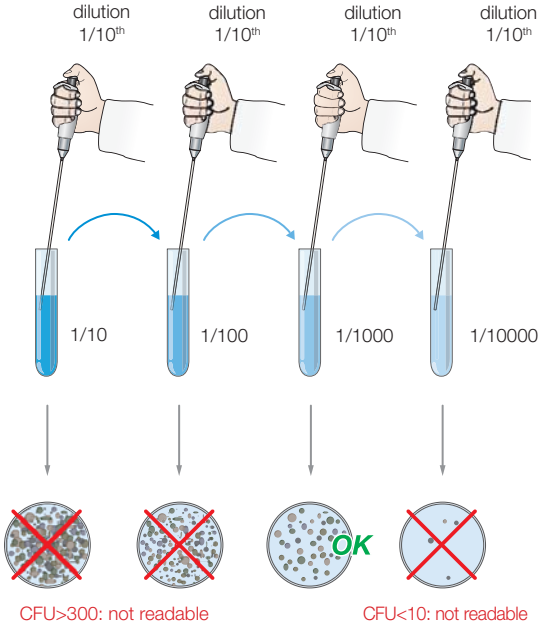
CSV file
results export

What is **Spiral**® method?

With easy**Spiral**® automatic platers, increase your lab capacity with a **counting range from 100 to 1x10^7 CFU/mL on 1 single Petri dish** without prior dilution.

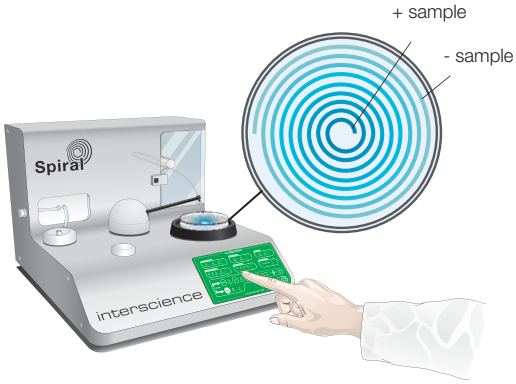
Manual plating method

This method requires repetitive actions: at least 4 dilutions and 4 successive platings are necessary to obtain one good and readable Petri dish.



Automatic spiral® method

With this method, make your analyses on **1 single Petri dish!**

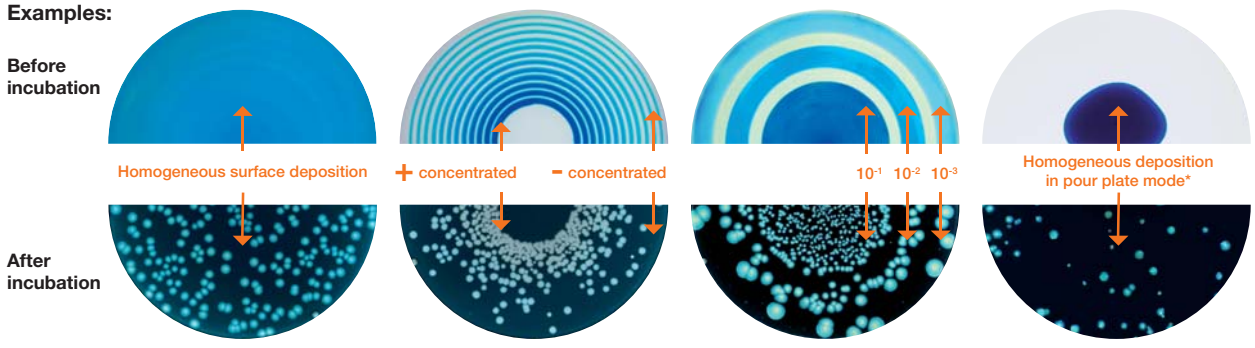


- From **100 to 1x10^7 CFU/mL** on 1 single Petri dish
- Up to **75% less consumables**
- Full plating cycle in **25 seconds!**

Automatic plating mode

Constant	Exponential	Circle	Pour
Homogeneous surface deposition	Decreasing surface concentration	3 or 6 surface dilutions on 1 Petri dish	Homogeneous deposition* in pour plate mode
50 µL, 100 µL, 200 µL and USB programmable	**50 µL, 100 µL, 200 µL and USB programmable**	**10 µL inner circle, 16 µL middle circle and 25 µL outer circle**	**50 µL, 100 µL, 200 µL and USB programmable**

Examples:



Easy colony counting: No colonies on the edge of the Petri dish	Counting range from 100 to 1x10^7 CFU/mL	Savings on Petri dishes	Easy colony counting for invasive colonies. Pharmacopoeia compliant

* In pour mode, easy**Spiral** Dilute® deposits one sample drop at the bottom of an empty Petri dish. Then, the user adds the molten agar on top and homogenizes it with the sample.

Choose your automatic plater

easy**Spiral®** range

easy**Spiral®**

Offers optimum features for easy Spiral® plating with excellent accuracy.

Counting range from: 300 to 1.3x10^5 CFU/mL

easy**Spiral Pro®**

Exceptional efficiency including 3 plating modes, programmable volumes via USB.

Counting range from: 100 to 1x10^7 CFU/mL

easy**Spiral** Dilute®

Top-of-the-line technology for automatic diluting and plating. 5 x serial 1/10th dilutions and automatic plating.

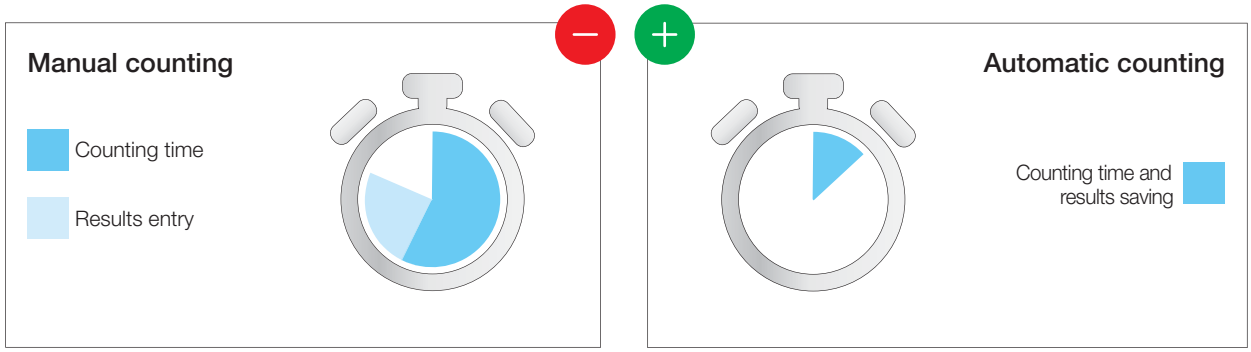
Counting range from: 30 to 1x10^{12} CFU/mL

	Reference	412 000	413 000	414 000
Top features	Overflow stylus disinfection system (patented)	✓	✓	✓
	Traceability	-	✓	✓
	Dilution mode (patented)	-	-	✓
Plating modes	Exponential plating mode	✓	✓	✓
	Circle plating mode (patented)	✓	✓	✓
	Constant plating mode	-	✓	✓
	Pour plating mode	-	-	✓
Petri dish size	90 mm Petri dishes	✓	✓	✓
	150 mm Petri dishes	-	✓	✓
	55 mm Petri dishes	-	-	✓

For more information, please refer to easySpiral® and easySpiral Dilute® brochures

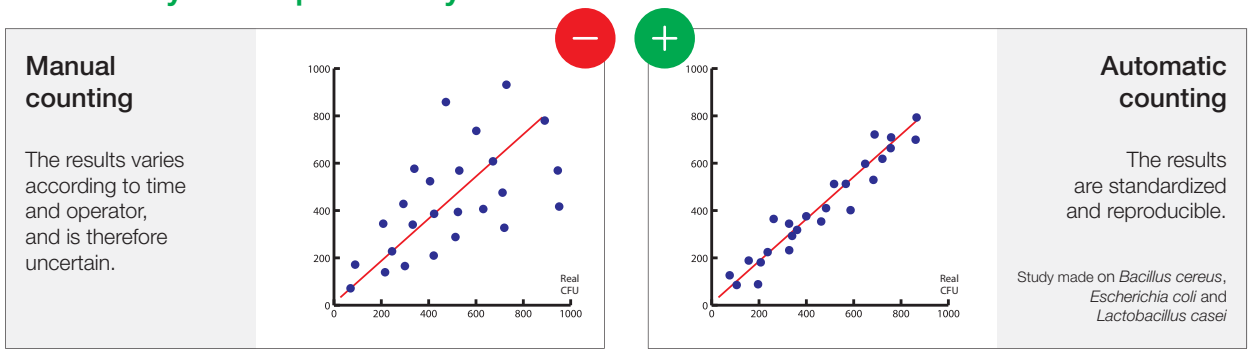
Why use a colony counter?

1 Productivity



If you count at least 50 Petri dishes per day, with the Scan® you can reduce the reading time up to 80% as it counts up to **1000 colonies in 1 second**.

2 Accuracy and repeatability



The manual counting of colonies on Petri dishes is long and painstaking and may vary in the beginning and the end of a single day, according to the operator. The Scan® count with **up to 98% accuracy** in a **constant and repeatable way**.

3. No settings needed

Choose your pre-set parameters for Petri dishes:


Pca/Tsa on black background

Pca/Tsa on white background

Mrs

Vrbl/Vrbg

Tbx

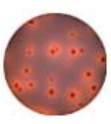
Tsc

Baird Parker


Gvpc Bcye


YM


Rapid L. Mono


Rapid Entero


Rhapsody


Compass cereus

Also available on Scan® 1200 and Scan® 4000:
- Sanita-kun™: AC, CC, EC/CC, SA
- Petrifilm™: AC, ETB, CC, EC/CC, EC
- Compact Dry™: TC, CF, EC, ETB

Choose your colony counter

Scan® range

		Scan® 300	Scan® 500	Scan® 1200	Scan® 4000
		Best value for money **Minimum colony size: 0.1 mm**	The reference for daily analyses **Minimum colony size: 0.1 mm**	High performance levels on a wide range of media **Minimum colony size: 0.05 mm**	Top-of-the-line technology with HD camera and unique lighting features **Minimum colony size: 0.05 mm**
	Reference	436 300	436 000	437 000	438 000
Top features	LED lighting	✓	✓	✓	✓
	HD camera (megapixel)	✓	✓	✓	✓
	High sensitivity sensor (CCD)	-	-	✓	✓
	Ultra HD camera (5 megapixels)	-	-	-	✓
	White LED Dome lighting	-	-	-	✓
Colony counting	Pour and surface mode	✓	✓	✓	✓
	Spiral® mode	✓	✓	✓	✓
	Chromogenic agar	-	✓	✓	✓
	Petrifilm™ Compact Dry™ Sanita-kun™	-	-	✓	✓
	Filtration membrane	-	-	✓	✓
	Round Petri dishes up to ø 150 mm	-	-	-	✓
Inhibition zone	90 mm round Petri dishes	-	✓	✓	✓
	120 mm square Petri dishes	-	-	-	✓

For more information, please refer to Scan® and Scan® 4000 brochures

Complete with data**Link**™

All the sample data, from automatic plating (volume, dilution, plating mode…) to automatic colony counting (lighting settings) are recorded on the Datamatrix label.

How does it work?

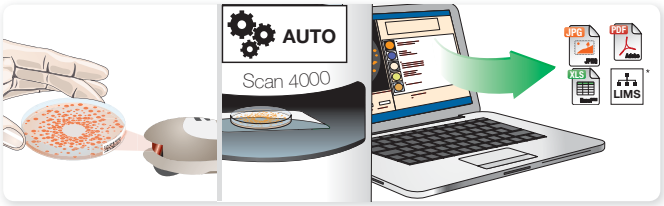
STEP 1

Plate with easy**Spiral Pro®** or easy**Spiral** Dilute®.
easy**Spiral®** software collects the plating data.

STEP 2

Print the label with Datamatrix. Stick the label on the plated Petri dish and place in the incubator.

... 24-72 h incubation

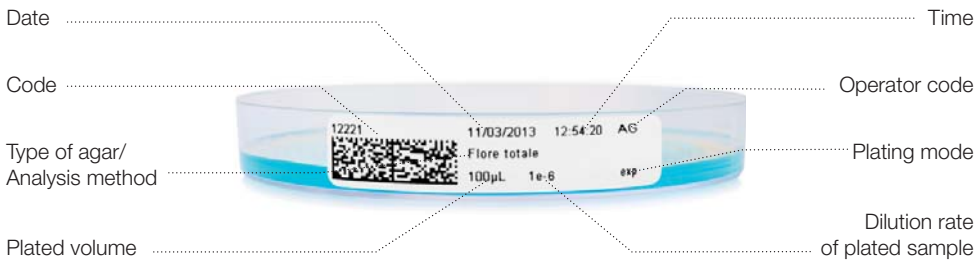


STEP 3

Once the colonies have grown, scan the Datamatrix. The **Scan®** colony counter automatically adjusts its settings thanks to the Datamatrix label's data. Click on "COUNT". Export the data.

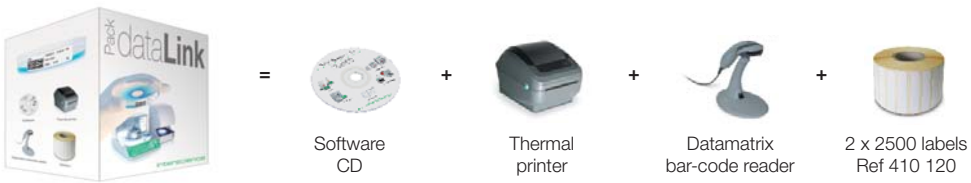
* Please check LIMS compatibility

Label model



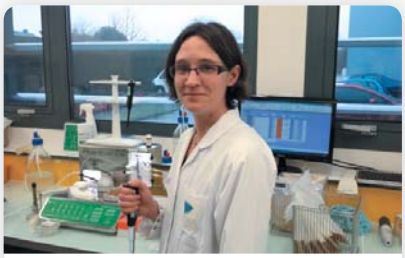
Label dimensions: 45 x 10 mm

dataLink™ pack:



Ref 410 100

Plate & **Count** system® in labs



ACTALIA

COFRAC accredited lab, quality expert for dairy companies.

Number of analyses: 600/day

Work with: Dilu***Flow***®, **BagMixer®,** easy**Spiral** Dilute®, **Scan® 1200**

"easySpiral Dilute® + Scan® 1200: 2 hours of analysis time saved each day"

Why did you feel the need for an automatic plater?

We need a device that can give us more than a classic spiral plater, especially with the innovations of the circle mode plating and the automatic dilution.

How has easySpiral Dilute® changed your work?

The easySpiral Dilute® has allowed a smoother workflow and technical time, even though we already have an automatic plater. Combining it with the Scan® 1200 automatic colony counter is extremely useful; we save over 2 hours of analysis per day. We particularly like its regularity, the start-up speed and the robustness of the stainless steel housing. Automatic dilution is very precise and economical. The device has allowed us to anticipate the normative developments.

BIOSE

Producer of microbiotic therapeutic ranges for human health.

Number of analyses: 100/week

Work with: easy**Spiral** Dilute®, **Scan® 1200, dataLink™**

"dataLink™: to gain repeatability and traceability"

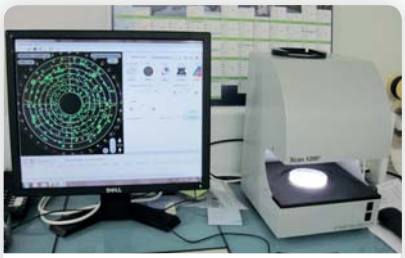
Why did you feel the need for an automatic plater?

We were looking for a device which could do a similar job to lab technicians, for more repeatable counting but also to save time.

How has easySpiral Dilute® changed your work?

It allows us to save time; while it is running, the technicians can anticipate the preparation of the samples to come. Automatic diluting, plating and label printing simplify our work. With the automatic saving of all the information on the computer, it optimizes reapeatability and traceability of the analyses.

We had the opportunity to test Plate & Count system® before purchase and it reinforced our decision. It was also helpful to have the Customer Support to answer our questions.



MOULIN DE LA MARCHE

Producer of smoked fish for the retail group Intermarché.

Number of analyses: 10 000/year

Work with: easy**Spiral** Dilute®, **Scan® 1200, dataLink™**

"24 000 € per year saved on consumables"

Why did you feel the need for an automatic plater?

We analyze about 9500 samples per year on which we count mesophilic flora at 30°C. We wanted to save on consumables.

How has easySpiral Dilute® changed your work?

The easySpiral Dilute® and the Scan® 1200 allows us to save 24000 € per year on consumables, compared to the film growing method that we used before buying these devices, and only for the analyses of the mesophilic flora at 30°C. Within 10 months, we recovered our investment. With the easySpiral Dilute® we can save money and time for subculturing. The Scan® 1200 has allowed us to save valuable time on Petri dish reading.

interscience

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