interscience

easySpiral®

The world's fastest Spiral plater

easySpiral® N° 30010-0 GB

interscience

Our quality for your lab

- Designer and manufacturer for microbiology
- R&D leadership for innovative and reliable products
- Information, technical advice and support 24/7
- Worldwide distribution network in more than 80 countries
- Made in France

interscience
R&D center and manufacturing plant
Mourjou FRANCE

Spiral® : 30 years experience

The Spiral® method was designed in 1973 to automate the routine work of bacterial enumeration by Dr. Ed Campbell, researcher at the FDA (Food & Drug Administration), With François Jalenques, friend and founder of interscience, they patented an updated method in 1992.

Since then Spiral® automatic platers have been a reference for applications in food microbiology, medical bacteriology, research on food preservatives or cosmetological factors in compliance with the **AFNOR V08-100** and **ISO 7218 standards**.

Today interscience is proud to launch the 3rd generation of Spiral® platers with easy**Spiral®** and easy**Spiral® Pro**.

F. Jalenques & Dr. Ed Campbell

1977
Spiral® DS
First Spiral® plater

1996
Spiral® DS+,
Automatic Spiral® plater

2010
easy**Spiral®**
World fastest Spiral® plater
Worldwide patented

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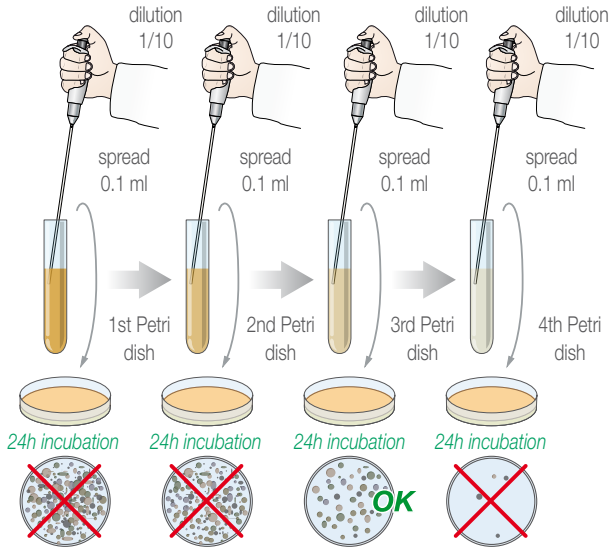
What is Spiral® method?

With **easySpiral®** automatic plater, increase your lab's capacity with automatic standardized plating of 30 to 10 million countable CFU/ml on **one single Petri dish** without prior dilution.

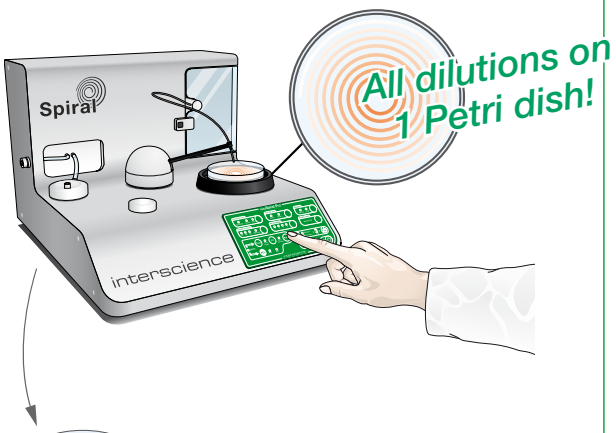
Manual plating method

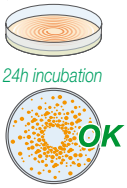
This method requires repetitive actions: at least **four dilutions** and **four successive platings** are necessary to obtain one good and readable Petri dish.



Automatic Spiral® method

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

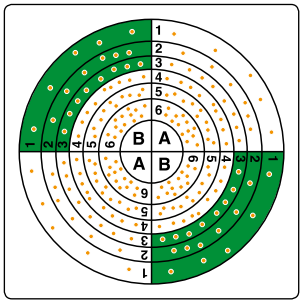




- *From 30 to 10 million CFU/ml on 1 single Petri dish*
- *Up to 75% less consumables*
- *Full plating cycle in 25 seconds!*

How to count?

With the **Spiral®** method, a **logarithmically decreasing** volume of sample is dispensed on the surface of a rotating Petri dish in an **Archimedes spiral**. The volume is calibrated and known at every point of the Petri dish. Bacterial concentration is determined by dividing the number of colonies found by the volume dispensed in the same sector of the dish.



For manual counting, count the colonies in the first A or B outer segment and **reach a minimum of 20 colonies.** Repeat the same operation on the opposite side of the Petri dish.

Manual counting

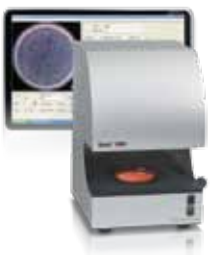
counting grid

OR

Scan® 100

Automatic counting

OR



Scan® 300
Scan® 500
Scan® 1200

easy**Spiral®** revolutionary efficiency

The new **easySpiral®** patented technology, exclusively developed by interscience, allows the automatic plating of your sample on a Petri dish in only 25 seconds with a decreasing concentration (sensitivity: from 30 to $1x10^7$ CFU/ml).

A completely new architecture with a **revolutionary rotating arm** allows a **full cycle in 25 seconds** (disinfection, sample-taking and plating). All the liquid flows are visible. No exterior maintenance is needed.

easySpiral® is equipped with an innovative unique stylus cleaning device, which guarantees a perfect cleaning and disinfection of the stylus, with **no risk of cross-contamination**.

Autoclavable bottles
Secure and easy connection by
CPC Connectors

2 L bottles
600 cleaning cycles

Auto disinfection
The inside and outside of the stylus
are cleaned by overflow technology

Sampling area
Fast and accurate filling in a sterile beaker
DB50, sterile and autoclavable

Stainless steel housing
Compact, 38 cm wide
Can be used inside and outside a laminar flow

AFNOR V 08-100

ISO 7218

Cleaning liquid sensor
Alarm when the bottle is empty

Rotating arm architecture
Automatic full cycle: 25 seconds

Modular Petri dish stand
Switch from 90 to 150 mm Petri dishes

Intuitive control panel
Easy to use
No training needed

Monthly cleaning
1 button to access the intensive,
periodic cleaning cycle (10 mins. approx.)

easy**Spiral**® **ensures fast sample platings with 99.5% repeatability and reproducibility, and reliable analyses by harmonizing the work of the whole lab team.**

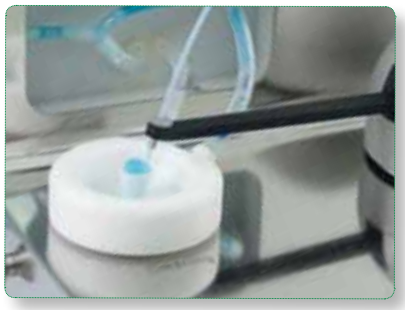
easy**Spiral®** technology

International PATENTS

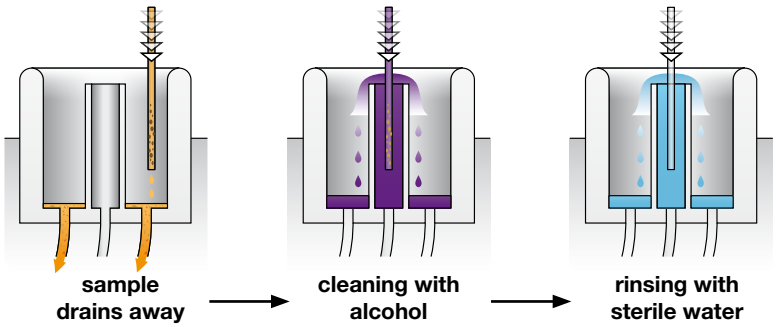
Delivering the fastest cycle time ever, **easySpiral®** has an impressive rotating arm architecture, new patented disinfection system avoiding risks of cross-contamination and full traceability of the operations with a sensitivity from 30 to 10 million CFU/ml on **one Petri dish**.

The fastest Spiral plater: only 25 seconds for a full cycle!

- 25 seconds for a full cycle (disinfection, sample-taking and plating)
- Rotating arm with high speed movement
- Patented electronic robot system
- 10 Petri dishes plated in less than 2 mins. (with the same sample)



Overflow technology*



- No cross-contamination
- Unique patented disinfection system by overflow
- 600 cleanings without changing bottles

USB programmable volume & traceability**

- Easy PC connectivity via USB
- From 10 to 1000 microliters programmable volumes
- 3 preset plating modes
- Monitoring software with traceability

Excel™ **USB** connection

Consumables reduced up to 75%!

- Reduced budget for consumables
- No specific consumables needed
- More space in your laboratory

*Scientific study available upon request

on easy Spiral® Pro**

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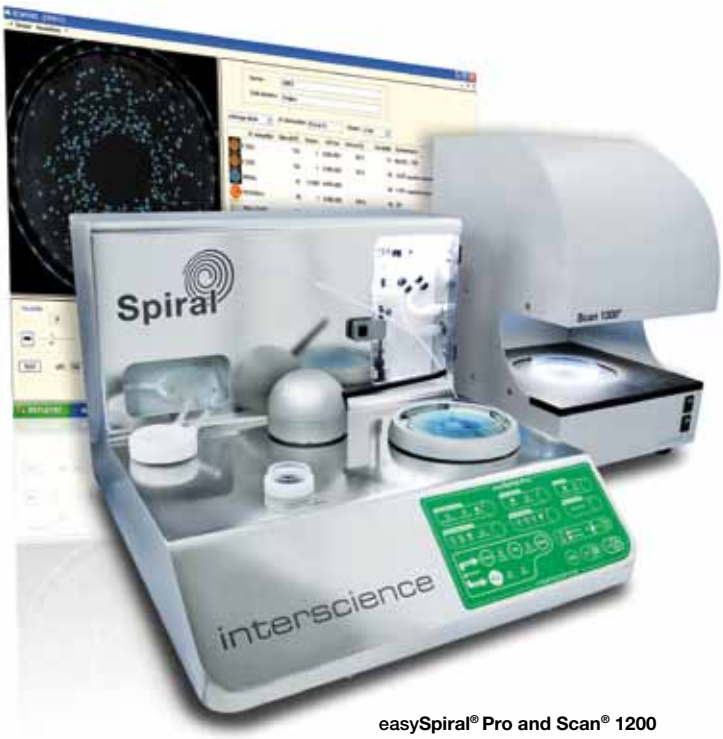
Plate & **Count®** system



easySpiral® Pro and Scan® 1200

Increase your lab capacity!

The **Plate** & **Count®** system includes:

- easy**Spiral®** / easy**Spiral® Pro** automatic Spiral® platers
- **Scan® 300** / **Scan® 500** / **Scan® 1200** automatic colony counters equipped with interscience's **Scan®** software

Method comparison

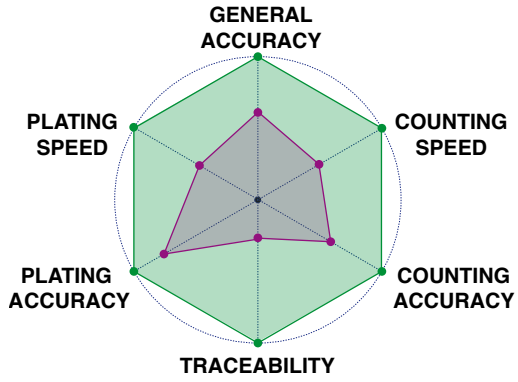


Plate & Count® system
Manual Method

Benefits

1 Incredible savings:
Save up to 75% in time, consumables and bench space

2 Fast:
Full plating cycle in 25 seconds and counting in 1 click

3 Reliable:
98% repeatable and reproducible results

4 Full traceability:
Automatic data saving and reporting

FREE DEMO VERSION

DOWNLOAD SCAN® SOFTWARE

www.interscience.fr

Technical specifications

	easy**Spiral®**	easy**Spiral® Pro**
Reference	412 000	413 000
Syringe capacity	1000 µl	1000 µl
Preset Volume dispensed	50 or 100 µl	50, 100 or 200 µl
Counting range	300 to 1.3 x 10^5 CFU/ml	30 to 1 x 10^7 CFU/ml
Full cycle time	25 seconds	25 seconds
Overflow technology	8 bars pressure	8 bars pressure
Cleaning autonomy	600 cycles (2l bottles)	600 cycles (2l bottles)
Successive plating capacity with the same sample	10 Petri dishes (50 µl)	10 Petri dishes (50 µl)
Automatic monthly cleaning	✔	✔
90 mm Petri dish	✔	✔
150 mm Petri dish	-	✔
Exponential deposition mode	✔	✔
Circle deposition mode	✔	✔
Uniform deposition mode	-	✔
Excel™ export traceability	-	✔
USB programmable volume	-	from 10 to 1000 µl
Dimensions	38 x 41 x 29 cm	38 x 41 x 29 cm
Weight	15.3 Kg	15.3 Kg
Power supply	90V to 240V 50Hz to 60Hz	90V to 240V 50Hz to 60Hz

APPLICATIONS

- **Microbiological tests**
- **Food control**
- **Bacterial cinetics**
- **MIC control of antibiotics**
- **Challenge test: cosmetics control**
- **Pharmaceutical control**

Delivered with: 1000 sterile beakers, 1 blue dye for tests, 1 detergent liquid, 3 sets of GL45 autoclavable bottle connectors, spiral counting grids: 90 mm & 150 mm*, test container stand, power cord, user's manual, 150 mm Petri dish ring*, monitoring CD-ROM software*, USB cable*.

*easy**Spiral® Pro**

Accessories

Housing protection
for working outside laminar flow
ref: 413 001

Beakers DB 50
sterile beakers
ref: 415 100

Barcode reader
barcode reader
ref: 522 000

Bottle set connection GL 45
for GL 45 bottles
ref: 413 003

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