

easySpiral®

The world's fastest Spiral® plater



interscience

Our quality for your lab

- Designer and manufacturer for microbiology
- R&D leadership for innovative and reliable products
- Worldwide distribution network in more than 130 countries
- Made in France



interscience
R&D center and manufacturing plant
Mourjou FRANCE

Spiral® method: 35 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, ISO 7218, ISO 4833-2, FDA-BAM and AOAC 977.27.

interscience has proudly launched the 3rd generation of Spiral® platters with **easySpiral®** and **easySpiral Pro®**.



François Jalenques & Dr. Ed Campbell



Spiral® DS
First Spiral Plater®
1979



Spiral® DS+
Automatic Spiral Plater®
1996



easySpiral®/easySpiral Pro®
World fastest Spiral® platters
Worldwide patented
2010

What is Spiral® method?

With easySpiral® automatic plater, increase your lab capacity with a counting range from 100 to 1×10^7 CFU/mL on **one 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.

dilution 1/10
spread 0.1 mL
1st Petri dish
Incubation
OK

dilution 1/10
spread 0.1 mL
2nd Petri dish
Incubation

dilution 1/10
spread 0.1 mL
3rd Petri dish
Incubation

dilution 1/10
spread 0.1 mL
4th Petri dish
Incubation

Automatic Spiral® method

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

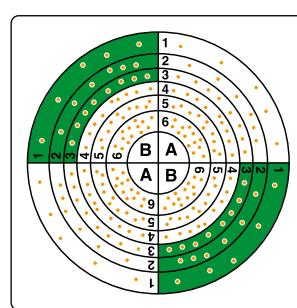
+ sample
- sample
All dilutions on 1 Petri dish!

- From 100 to 1×10^7 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 colony counting



or

Automatic colony counting



Scan® 300
Scan® 500
Scan® 1200
Scan® 4000

easySpiral® 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 (counting range: from 100 to 1×10^7 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
No cross contamination

PATENTED

Sampling area

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

Stainless steel housing

Compact, 40 cm wide
Can be used inside and outside a laminar flow





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



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

easySpiral® 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 counting range from 100 to 1×10^7 CFU/mL on **1 Petri dish**.

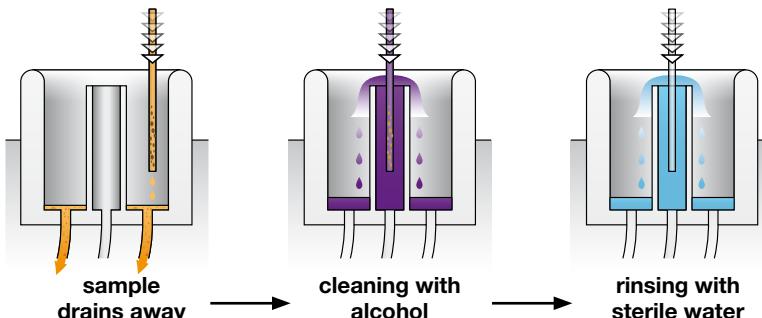


The fastest Spiral® plater: only 25 seconds for a full cycle!

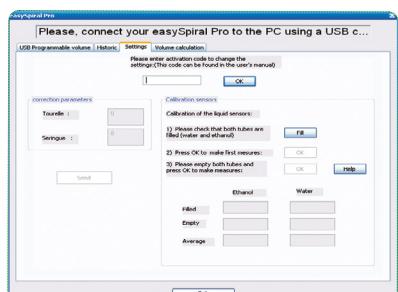
- 25 seconds for a full cycle (disinfection, sample-taking and plating)
- Rotating arm with high speed movement
- Patented electronic robot system
- 10 Petri dishes plated in less than 2 mn (with the same sample)



Overflow technology*



- No cross-contamination
- Unique patented disinfection system by overflow
- 600 cleanings without changing bottles (2L)



USB programmable volume & traceability**

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



Consumables reduced up to 75%!

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



*Scientific study available upon request

**On easySpiral Pro®

Plate & Count System[®] + dataLink™



Plate & Count System[®] + dataLink™ offer quick and reliable results from automatic plating to colony counting with total traceability.

- **GREAT SAVINGS:** Up to 75 % savings in time, consumables and space
- **QUICK:** Full plating cycle in 25 seconds and counting in 1 click. No need of manual data input as the Scan[®] colony counter retrieves it and adjusts automatically.
- **RELIABLE:** Repeatable and reproducible results up to 98 %
- **FULL TRACEABILITY WITH dataLink™:** Automatic saving of data and results

How does it work ?



STEP 1

Plate with easySpiral Pro[®].

easySpiral[®] software collects the plating data.



STEP 2

Print the label with Datamatrix code. 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 code. 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



**DOWNLOAD
SCAN[®] SOFTWARE**

www.interscience.com



Technical specifications

	easySpiral®	easySpiral Pro®
Reference	412 000	413 000
Controlled by a microprocessor	✓	✓
All stainless steel	✓	✓
Disinfection process	✓	✓
Filling time and volume programmable via USB	-	✓
Sampling from beakers (DB50)	✓	✓
Syringe capacity	1 000 µL	1 000 µL
Preset dispensed volumes	50 µL and 100 µL	50 µL, 100 µL and 200 µL
Counting range	300 CFU/mL to 1.3x10 ⁵ CFU/mL	100 CFU/mL to 1x10 ⁷ CFU/mL
Time for 1 sample intake + 1 disinfection + 1 plating	25 s	25 s
Pressure in the stylus	Up to 8 bars	Up to 8 bars
Autonomy in disinfection (in normal mode)	1000 cycles (2 L bottles)	1000 cycles (2 L bottles)
Autonomy in distilled water (in normal mode)	600 cycles (2 L bottles)	600 cycles (2 L bottles)
Successive plating capacity with the same sample	Up to 20 Petri dishes (50 µL)	Up to 20 Petri dishes (50 µL)
Exponential plating mode (Spiral mode): Petri dish diameters Ø available	90 mm	90 mm and 150 mm
Circle plating mode: Petri dish diameters Ø available	90 mm	90 mm and 150 mm
Constant plating mode: Petri dish diameters Ø available	-	90 mm and 150 mm
Programmable dispensed volume (via USB)	-	10 µL to 1000 µL
Voltage - Frequencies	100-240 V~ 50-60 Hz	100-240 V~ 50-60 Hz
Warranty	1 year	1 year
Spare parts availability	10 years	10 years
In compliance with	ISO 7218, ISO 4833-2, FDA BAM (Bacteriological Analytical Manual) and AOAC 977.27	ISO 7218, ISO 4833-2, FDA BAM (Bacteriological Analytical Manual) and AOAC 977.27
Traceability	Excel™, LIMS, dataLink®	Excel™, LIMS, dataLink®

APPLICATIONS

- Microbiological analyses
- Food quality control
- Bacterial kinetics
- MIC of antibiotics
- Challenge test: cosmetics control
- Pharmaceutical control

easySpiral®: 1 plateau pour boites de Petri Ø 90 mm (monté par défaut sur l'appareil), 1 flacon de colorant bleu, 1 seringue avec tube silicone, 1 grille de comptage Spiral pour boite de Petri de Ø 90 mm, 1 support récipient pour test, 1 lot de 2 filtres, 1 000 godets DB50, 1 pot de détergent EnzyClear, 4 kits de raccordement pour bouteille GL45, 1 kit de raccordement double sortie pour bouteille GL45, 1 stylet, 1 câble d'alimentation, 1 manuel d'utilisation, 1 notice simplifiée EnzyClear, 1 certificat de conformité/carte de garantie easySpiral Pro®: 1 plateau pour boites de Petri Ø 90 mm (monté par défaut sur l'appareil), 1 flacon de colorant bleu, 1 seringue avec tube silicone, 1 grille de comptage Spiral pour boite de Petri de Ø 90 mm, 1 support récipient pour test, 1 lot de 2 filtres, 1 logiciel de supervision, 1 câble USB A/B, 1 grille de comptage Spiral pour boite de Petri de Ø 150 mm, 1 000 godets DB50, 1 pot de détergent EnzyClear, 4 kits de raccordement pour bouteille GL45, 1 kit de raccordement double sortie pour bouteille GL45, 1 stylet, 1 plateau pour boites de Petri Ø 150 mm, 1 câble d'alimentation, 1 manuel d'utilisation, 1 notice simplifiée EnzyClear, 1 certificat de conformité/carte de garantie

Accessories



Housing protection for platters

Transparent housing for working outside laminar flow

Ref 413 001



dataLink™

Petri dish labeling solution

Ref 410 100



DB 50 beakers

1 000 sterile beakers for Spiral® platters

Ref 415 100



Bar-code reader

Barcode reader for traceability

Ref 522 000

Your local distributor

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