# easy**Spiral**®

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 80 countries
- Made in France



interscience R&D center and manufacturing plant Mourjou FRANCE

# **Spiral**<sup>®</sup> method: 35 years experience

The Spiral<sup>®</sup> 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 **intenscience**, they patented an updated method in 1992.

Since then Spiral<sup>®</sup> 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**.

intenscience is proud to launch the 3<sup>rd</sup> generation of Spiral<sup>®</sup> platers with easy**Spiral<sup>®</sup>** and easy**Spiral<sup>®</sup> Pro**.



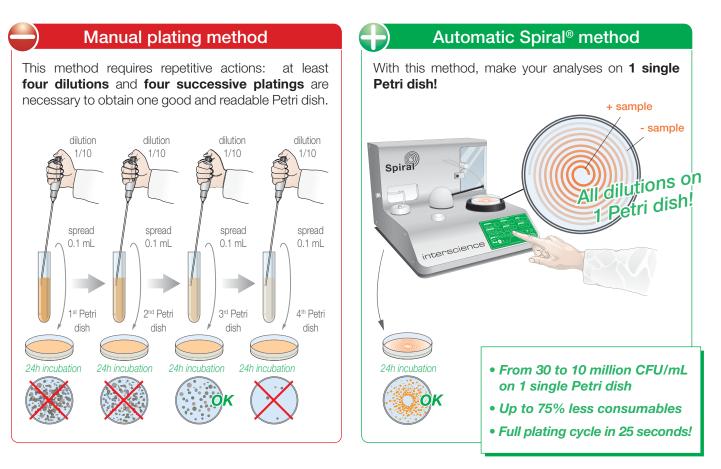
François Jalenques & Dr. Ed Campbell



easySpiral<sup>®</sup>/easySpiral<sup>®</sup> Pro World fastest Spiral<sup>®</sup> platers Worldwide patented 2010

# What is Spiral<sup>®</sup> method?

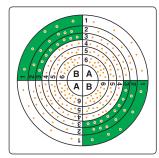
With easySpiral<sup>®</sup> automatic plater, increase your lab's capacity with automatic standardized plating of 30 to 10 million countable CFU/mL on **one single Petri dish** without prior dilution.



### How to count?



With the **Spiral**<sup>®</sup> 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



Scan<sup>®</sup> 100

with Spiral<sup>®</sup> counting grid

or

### Automatic colony counting



Scan<sup>®</sup> 300 Scan<sup>®</sup> 500 Scan<sup>®</sup> 1200

# easySpiral<sup>®</sup> revolutionary efficiency

The new easySpiral<sup>®</sup> 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<sup>7</sup> 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<sup>®</sup> 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**.



### 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



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# easySpiral® technology



Delivering the fastest cycle time ever, **easySpiral**<sup>®</sup> 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**.

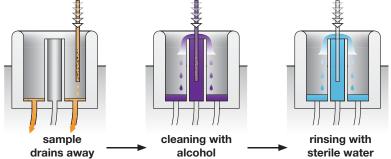


### The fastest Spiral<sup>®</sup> plater: only 25 seconds for a full cycle!

- 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

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### USB programmable volume & traceability\*\*

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

Excel™ USB connection

• 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

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# Plate & Count System®



### **Method comparison**

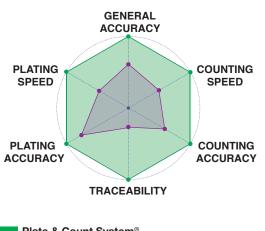


Plate & Count System<sup>®</sup>
Manual Method

# Increase your lab capacity!

### The Plate & Count System® includes:

- easySpiral<sup>®</sup> / easySpiral<sup>®</sup> Pro automatic Spiral<sup>®</sup> platers
- Scan<sup>®</sup> 300 / Scan<sup>®</sup> 500 / Scan<sup>®</sup> 1200 automatic colony counters equipped with interscience's Scan<sup>®</sup> software

### **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



# Technical specifications

	easy <b>Spiral</b> ®	easySpiral® 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 <sup>5</sup> CFU/mL 30 to 1 x 10 <sup>7</sup> CFU/r		
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	20 Petri dishes (50 µL)	50 Petri dishes (50 µL)	
Automatic monthly cleaning	>	✓	
90 mm Petri dish	<b>~</b>	<b>~</b>	
150 mm Petri dish	-	<b>&gt;</b>	
Exponential deposition mode	✓	<b>~</b>	
Circle deposition mode	✓	✓	
Uniform deposition mode	-	✓	
Excel <sup>™</sup> export traceability	-	<b>~</b>	
USB programmable volume	-	from 10 to 1000 µL	
Dimensions	38 x 42 x 29 cm	38 x 42 x 29 cm	
Weight	15.6 Kg	15.6 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 testing, 1 liquid detergent, 4 sets of connectors for autoclavable GL45 bottles, spiral counting grids: 90 mm & 150 mm\*, container stand for testing, power cable, user manual, 150 mm Petri dish ring\*, software on a CD-ROM\*, USB cable\*. \*Only for easySpiral® Pro

### Accessories



Housing protection Transparent housing for working outside laminar flow Ref 413 001



Beakers DB 50 1 000 sterile beakers for Spiral® platers Ref 415 100



Barcode reader Barcode reader for traceability Ref 522 000



2 L bottle 2 L GL45 glass bottle Ref 413 002



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