

## Advanced Autoplate Spiral Plating System

The premier automated spiral plating system  
specifically designed to optimize productivity and  
improve results in the microbiology laboratory



 **Spiral  
Biotech**  
An Advanced Instruments Company

[www.spiralbiotech.com](http://www.spiralbiotech.com)

**Eliminate the need for serial dilutions, save time, save money, and automate your laboratory**

The **Autoplate**<sup>®</sup> is a microprocessor-controlled spiral plater used for bacterial enumeration, antimicrobial susceptibility testing, and mutagenicity assays. This unique technology results in 3/4 reduction of disposable materials and significant savings in time and labor. The Autoplate provides greater detection sensitivity and sample repeatability than conventional plating techniques.

LCD Windows<sup>®</sup> CE touch screen display ensures ease of use

Unique straight stylus design to accommodate filling from test tubes, cups, or centrifuge tubes

Precision illuminated syringe to ensure proper operation

Innovative one-step wash station for maximum disinfecting

On-board, easy-to-see wash and waste containers

**In-house user validation for the highest accuracy**

The Validation Text Fixture allows the user to verify system performance with a simple, in-house procedure. Synchronization between syringe and carriage movements is verified ensuring accuracy and saving time and money under Good Laboratory Practice guidelines.





### 10 Deposition Modes for Maximum Efficiency

Autoplate increases the productivity of the laboratory with a performance range of 2 cfu/mL to 1,000,000 cfu/mL with no dilution required, reducing the use of disposables by 3/4.

## Accurate, Sensitive, Cost-Effective, and Efficient

### AUTOPLATE FEATURES AND BENEFITS

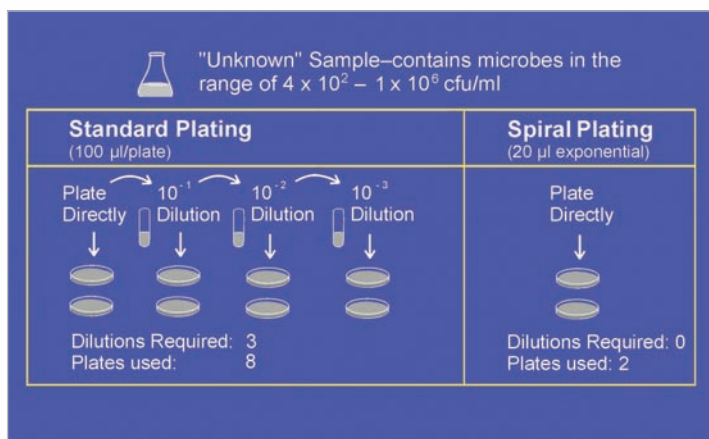
- **20 µl deposition** – greatly extend the upper detection limits
- **30-second cycle time** – increase the productivity in the lab
- **500 µl syringe** – significantly extend lower detection limits and plate multiple replicates
- **One-step cleaning** – pump-driven cleaning system completely disinfects stylus without the use of an external vacuum
- **Stainless steel work surface** – easily disinfect the work surface
- **Plate Centering Adapter** – utilize both 10 cm and 15 cm plates and accommodate plate size variations between manufacturers

- **Expel cleaning** – remove the threat of clogged styli by expelling the sample from the tip on each cleaning
- AOAC (977.27), IMS, APHA, CE, IUL, ISO certifications
- **USB interface** – for future updates and technical support
- **One-button operation** – maximize productivity by running "Fill, Plate, Clean" with one touch
- **Multiple deposition modes** – Exponential: 20 µl, 50 µl, 50 µl Slo, 100 µl; Uniform: 20 µl, 100 µl, 250 µl, 500 µl; Proportional: 20 µl; Lawn: 20 µl

### APPLICATIONS

- Food and dairy testing
- Preservative challenge testing
- Agricultural and environmental monitoring
- Medical, dental, and clinical
  - Antimicrobial susceptibility (SGE)
  - Mutagenicity assays
  - Oral microbiology

## Achieve Up to 3/4 Savings in Disposable Materials with the Autoplate



The Autoplate creates a 4-log dilution effect (20 µl exponential mode) eliminating the need for four 10-fold dilutions.

## How it Works

A syringe-driven dispensing stylus deposits sample onto a rotating agar plate. The stylus moves from the near-center outward while the plate rotates as the syringe drives downward, depositing less sample as the stylus moves outward. This unique plating action eliminates most serial dilutions by continuously reducing the number of microbes placed along the spiral track.



# QCount

## ABOUT ADVANCED INSTRUMENTS

Advanced Instruments, Inc., and our subsidiaries, Spiral Biotech, Delta Instruments, D & F Control Systems, and Mart Microbiology, design and manufacture instrumentation for clinical, pharmaceutical, biotechnology, microbiology, and food laboratories around the world. Our products help healthcare companies improve the quality of care and industrial companies enhance quality and productivity.

Ideal companion to the QCount® Automated Colony Counter for a fully integrated plating and enumeration system.



### Autoplate Spiral Plating System Specifications\*

Plate sizes	100 and 150 mm
Syringe capacity	500 µL
Turntable plating speed	
Normal	2.5 rps
Slow	1.5 rps
Plating time	7 seconds (Standard mode, 50 µL deposition, 100 mm plate)
Dimensions	13.2" H x 22.1" W x 13.4" D (33.5 cm x 56.2 cm x 34.1 cm)
Electrical voltage	100 to 240 V AC (50 to 60 Hz)
Storage temperature	-40°C to +71°C (-40°F to +160°F)
Operating temperature (ambient)	18°C to 35°C (64°F to 95°F)
Installation class	Class I

### Deposition Volume (µL)

Deposition Mode	100 mm Plate	150 mm Plate
Exponential	20, 50, 100	21.7, 54.3, 108.6
Uniform	20, 100, 250, 500	63.5
Proportional	20	43.1
Lawn	20	60.2

\* Specifications subject to change



The management system governing the manufacturing of this product is ISO 9000 and ISO 13485 registered.

Spiral Biotech products are available from a worldwide distributor network. For more information on our products and services or to find your nearest distributor, visit us at [www.spiralbiotech.com](http://www.spiralbiotech.com) or email us at [infosbi@spiralbiotech.com](mailto:infosbi@spiralbiotech.com).

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