



EDDYJET 2

Cleaner, faster, better
Spiral plater



Introduction to spiral plating

Spiral plating is a widely accepted microbiological surface plating technique that was created in the 1970s to **reduce the amount of Petri dishes** used in surface spreads. Time-consuming serial dilutions required in conventional spread plating are avoided. A single spiral spreaded plate spares the inoculation of 3 Petri plates, drastically reducing operation times and materials.

This technique is based on the usage of an Archimedean spiral spread. Volumes poured along a spiral decrease exponentially so that a single plate hosts several sample concentrations distributed across the spiral. Once incubated, plates are read using a specific counting grid.

Eddy Jet 2 as a leading edge spiral plater

Eddy Jet 2 is an unmatched spiral plater that pushes the outstanding standards of the first EDDY JET even further by adding trendsetting innovations to spiral plating:

- Its **state of the art connectivity** (featuring an Ethernet connection , 2xUSB ports and 2xRS-232 ports): allow for connection to:
 - a printer: that can print labels and records of the inoculations performed

- a barcode reader: that allows for plate traceability
- EJ2's **streamlined intuitive software** is commanded from a color touch panel
- IUL also **improved spread times** in this device.

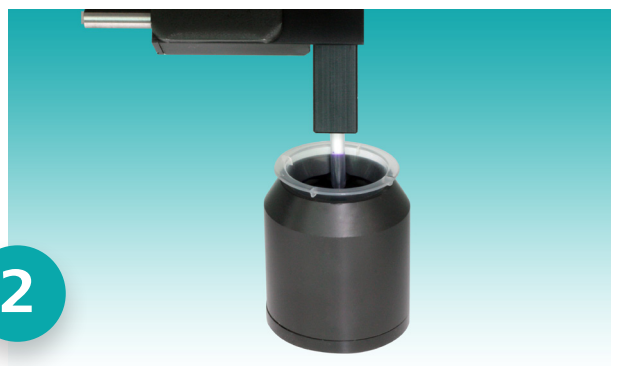
EJ2 stands out as the spiral plater with the widest range of spiral distributions: **it can make up to 22 different spiral distributions.**

Eddy Jet 2 Workflow



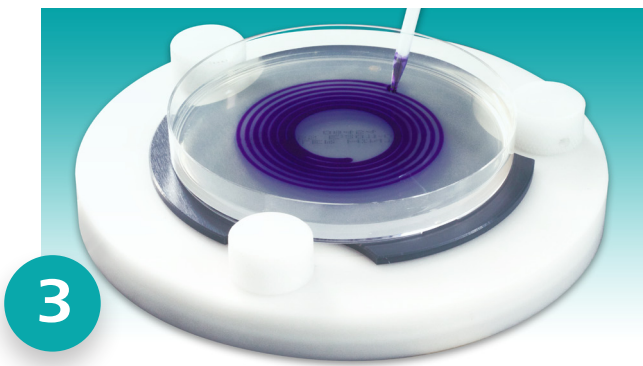
1

Eddy Jet 2's beak grabs a **brand new sterile syringe**.



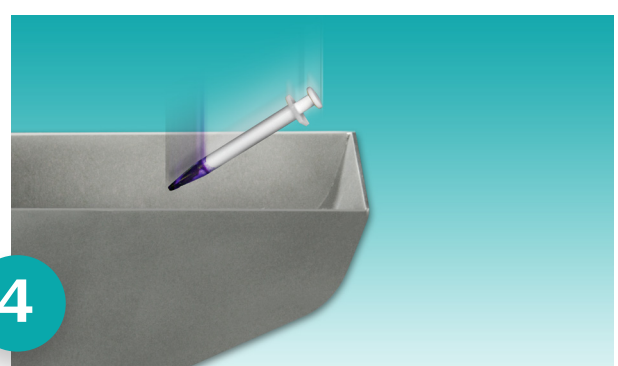
2

The syringe draws in a liquid sample.



3

As the agar plate spins, the syringe automatically dispenses accurate volumes of sample over the plate drawing a spiral with the loaded sample



4

Eddy Jet 2 gets rid of the sample-contaminated syringe.



IUL's patented syringe method

When IUL released Eddy Jet 1, in 1998, a revolutionary approach to spiral plating was achieved by implementing disposable **Gamma-ray sterilized microsyringes** to perform sample spreading.

IUL's **world patented microsyringes** prevent any cross-contamination from taking place making Eddy Jet 2 the spiral spreader with the highest sensitivity.

Also, Gamma-ray microsyringe sterilization makes cleaning cycles unnecessary, saving large amounts of time.

Unlike other spiral plating devices, Eddy Jet 2 doesn't require for bleach disinfection. Implying that no leftover bleach may affect sample bacteria, avoiding false negative results. Thus, Eddy Jet 2 offers labs the **highest specificity** available in the market.



Exclusive microsyringes that ensure genuine sampling sterility



Revolutionary connectivity



Outstanding performance

Accessories and Disposables

1. 1000 Υ -irradiated Microsyringes
CAT. 90001780
2. 1000 Υ -irradiated Sample Beakers
CAT.90001790
3. Plate for 15 cm Petri Dishes
CAT. 90001715
4. Holder for sample beaker box
CAT. 90001949
5. Holder for Microsyringe box
CAT. 90001950
6. Sampling Holder for Beakers
CAT. 90001974
7. Barcode reader
CAT. 90005700



Technical data

Reproducibility: > 99%

Time for a full cycle: 30 s
(disposable syringes make disinfection unnecessary)

Spreading modes stored:
22 spread modes (44 counting those for 15mm Petri plates)

Petri plate diameters: ... 100 and 150 mm

Minimum step volume: < 10 nl

Maximum pipetted volume: 100 μ l

Syringe material: Polypropylene

Plunger material: Polyethylene H.D.

Auto checking: Programmed in 6 regions

Touch screen: 5.71 in

Specifications subject to change without notice

Operating system: Windows embedded CE 6.0 R3

External balance connection: Serial RS232 DB9

Printer connection: Serial RS232 DB9

Barcode reader connection: Specific connection for IUL barcode readers

Connection for updates: Ethernet/ USB pendrive

Additional connections for peripherals: 2 x USB Host ports

Dimensions (WxHxD)
51.5 x 42 x 50 cm / 20.3 x 16.5 x 19.7 in

Weight: 20 Kg / 44 lb.

Motion control: Microcontroller regulated stepper motors

Authorised distributor

In Australia:

For customer service, call 1300-735-292
To email an order, ordersau@thermofisher.com
To order online: thermofisher.com

In New Zealand:

For customer service, call 0800-933-966
To email an order, ordersnz@thermofisher.com
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