

easySpiral Dilute®

Automatic diluter and plater

Ref 414 000



Standards:



Traceability:



Manufactured under:



easySpiral Dilute® is an automatic diluter and plater. It enables serial dilutions up to 10^{-5} with increased accuracy and automatic standardized plating from 30 to 1×10^{12} CFU /mL on 1 single Petri dish.

TECHNICAL SPECIFICATIONS

- Plating modes: exponential, constant, **circle, pour plate**
- Petri dish diameter: 55 mm, 90 mm and 150 mm
- Can adapt to all sizes of Petri dishes with adjustable plating dish (**Ref 413 019** and **Ref 413 020**)
- Preset dispensed volumes: 50, 100 and 200 μ L
- Counting range: from 30 to 1×10^{12} CFU/mL
- **Programmable dispensed volume (via USB) from 10 to 1000 μ L**
- Exponential mode: 4 dilution logs on a \varnothing 90 mm Petri dish / 6 dilution logs on a \varnothing 140/150 mm Petri dish
- Volumes accuracy: \pm 0.5% (in normal mode)
- **Syringe capacity: 1 000 μ L**
- **Plating cycles time:**
 - 1 disinfection + 5 dilutions + 1 sample intake + 1 plating of a dilution: **134 s**
 - 1 disinfection + 5 dilutions + 1 sample intake + 1 plating of each dilution: **234 s**
- **Automatic cycle of 5 successive dilutions at $1/10^{\text{th}}$**
- **Circle mode: 3 dilutions on a 90 mm Petri dish / 6 dilutions on a 150 mm Petri dish**
- **Successive plating capacity with the same sample: up to 20 Petri dishes (50 μ L)**
- **Multi-use, autoclavable stylus**
- **Cleaning and disinfection of the stylus by “overflow” technology. Pression: up to 8 bars (patented)**
- Disinfection process
- Approved disinfectants: bleach 1 % active chlorine or ethanol at 70 % or a solution of hydrogen peroxide H_2O_2 (1 to 5 %) and peracetic acid PAA (0.05 to 1 %)
- **Security detection in case of absence of disinfection liquid**
- Approved diluents: saline water, Ringer solution
- **Autonomy in disinfection (in normal mode): 1000 cycles (2L bottles)**
- **Autonomy in diluents: 63 cycles (2L bottle)**
- **All stainless steel**
- Controlled by microprocessor
- **Fast rotating arm (Patented)**
- **Filling time (for different sample viscosities) and volume programmable by USB**
- **Sample mixing before dilution/plating**
- 3 test keys for checking dilutions' volumes and platings (volumetric weighing)
- Easy connection to PC via USB
- Traceability: Excel™ export, LIMS
- **Compatible with dataLink™ traceability system** (sticker edition and automatic link with Scan® automatic colony counters)
- Sample intake in Eppendorf™ 1.5 mL beaker

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- Voltage - frequencies: 100-240V~ 50-60Hz
- Fuses: T1.6A L 250V 5x20 mm
- Power: 45 W
- Dimensions (w x d x h): 40 x 41.5 x 29 cm, weight: 16.4 kg
- Box (w x d x h): 60 x 50 x 55 cm, weight: 24.6 kg
- Warranty: 1 year
- In compliance with ISO 7218, ISO 4833-2, FDA BAM (Bacteriological Analytical Manual), AOAC 977.27
- Manufactured under CE, RoHS, WEEE
- Designed and made in France

DELIVERED WITH

- 1 turntable ring for Ø 90 mm Petri dishes (by default on the unit)
- 1 box with:
 - 1 blue dye for testing (**Ref 415 530**)
 - 1 syringe with silicone tubing
 - 1 plating ring for Ø 55 mm Petri dishes
 - 1 plating ring for Ø 150 mm Petri dishes
 - 1 Spiral® counting grid for Ø 90 mm Petri dishes (**Ref 413 014**)
 - 1 Circle mode counting grid for Ø 90 mm Petri dish (**Ref 413 026**)
 - 1 set of 2 filters (Ref 413 009)
 - 1 software (minimum requirements: screen resolution of 1280x960)
 - 1 USB cable A/B
- 1 Spiral® counting grid for Ø 150 mm Petri dishes (**Ref 413 015**)
- 1 Circle mode counting grid for Ø 150 mm Petri dish (**Ref 413 027**)
- 1000 DB50 beakers (**Ref 415 100**)
- 1 EnzyClear® liquid detergent (**Ref 413 029**)
- 4 connection kits for GL45 bottle (**Ref 413 003**)
- 1 double kit for GL45 bottles (**Ref 414 004**)
- 1 stylus (**Ref 414 001**)
- 1 power cable
- 1 user's manual
- 1 EnzyClear® quick user guide

OPTIONS / ACCESSORIES

- **Ref 410 100** dataLink™: Traceability system
- **Ref 410 120** **Sticker for printer:** Labels roll for thermal printer - Label size: 45 x 10 mm
- **Ref 410 130** **Film for printer:** Thermal transfer film
- **Ref 412 010** **Plate for Petri dish (50-60 mm):** Multiadaptable support for Petri dishes from ø 50 to 60 mm
- **Ref 412 011** **Plate for Petri dish (60-70 mm):** Multiadaptable support for Petri dishes from ø 60 to 70 mm
- **Ref 412 012** **Plate for Petri dish (70-80 mm):** Multiadaptable support for Petri dishes from ø 70 to 80 mm
- **Ref 412 013** **Plate for Petri dish (80-90 mm):** Multiadaptable support for Petri dishes from ø 80 to 90 mm
- **Ref 413 001** **Housing protection for platers:** Transparent housing for working outside laminar flow
- **Ref 413 002** **2 L bottle (GL45):** 2 L GL45 glass bottle
- **Ref 413 003** **Connection kit for GL45 bottle:** Autoclavable connection set for GL45 bottle
- **Ref 413 004** **Syringe 1 mL:** Syringe (capacity 1000 µL)
- **Ref 413 005** **Micro pump:** Internal micro pump
- **Ref 413 006** **Tubings:** Silicone tubing with filter for cleaning pump
- **Ref 413 009** **Filters for rinsing bath:** Set of 2 filters for rinsing bath
- **Ref 413 014** **Spiral® counting grid (90 mm):** Counting grid for Ø 90 mm Petri dishes
- **Ref 413 015** **Spiral® counting grid (150 mm):** Counting grid for Ø 150 mm Petri dishes
- **Ref 413 019** **Adjustable plate for Petri dish (90-150 mm):** Multiadaptable support for Petri dishes of 90 to 150 mm
- **Ref 413 026** **Circle counting grid (90 mm):** Circle mode counting grid for Ø 90 mm Petri dish
- **Ref 413 027** **Circle counting grid (150 mm):** Circle mode counting grid for Ø 150 mm Petri dish
- **Ref 413 028** **Tube weights (ø 3 mm):** Set of 5 tube weights (inner ø 3 mm)
- **Ref 413 029** **EnzyClear®:** Spiral® plater detergent recommended for cleaning and pre-disinfection
- **Ref 414 001** **Stylus (1 mL):** Stylus 1 mL
- **Ref 414 002** **Support for Eppendorf™ 1.5 mL:** Support for Eppendorf™ - Sample intake 1.5 mL for easySpiral Dilute®
- **Ref 414 003** **Maintenance kit for platers (1 mL):** Maintenance kit (1 stylus + 1 syringe + 1 x tubings (Ref 413 006),

- **Ref 414 004** 1 grease tube, 10 filters for pump, 2 female quick connectors)
- **Ref 415 100** **Double connection kit for GL45 bottle:** Double connection kit for GL45 bottle to be use on the same bottle
- **Ref 415 530** **Beakers (DB50):** 1 000 beakers for Spiral® plater (5 mL)
- **Ref 513 023** **Blue dye for platers:** Color dye for Spiral® tests (125 mL)
- **Ref 522 000** **PTFE filters 0.2 µm (Ø 25 mm):** Set of 5 autoclavable filters (0.2 µm)
- **Bar-code reader:** Bar-code reader