

Microbiology line



- Colony Counting
- Spiral Plating
- Bag and Tube Dilution
- Bag Mixing
- Air Sampling
- Incubation



NEUTECH
GROUP INC
Innovative Laboratory Equipment Solutions

Microbiology as easy as ①-②-③

Follow the work flow in a classic microbiology laboratory From step-1 Sample prep (diluting and mixing) to step-2 Spiral inoculation, incubation and than complete with the 3rd step colony count, we carry few tiers of innovative products, suitable for any microbiology lab, based on your work load, sample volume and method used, to increase your lab productivity, cost savings and through-put.

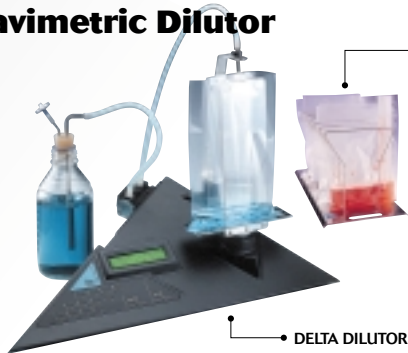
1 Sample Prep - Dilution and Mixing

Delta Dilutor Gravimetric Dilutor

Gravimetric dilution device used to perform dilutions based on the control of weight. Rapidly makes precise dilutions of random weight samples in sterile polyethylene bags, reducing hands on time. Dispenses a fixed weight of liquid.

Features and Benefits:

- Quick disassembling and quick assembling components that come in contact with the dilutor for sterilization requires a minimum amount of time
- Routine work is user friendly and easy to calibrate
- In its Standard version, it can perform fractional dilution factors (e.g., 3:8)



PORTABAG

Holder for six bags. Two versions: for small volumes up to 80 ml and for standard bags up to 400 ml.

Features and Benefits:

- Clamping design to eliminate additional closure
- Easy to maintain and clean, all parts made of stainless steel
- Stackable

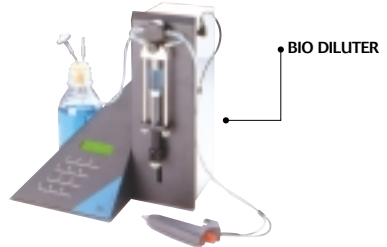
Bio Diluter Test Tube Dilutor

As a microbiological volumetric dilutor, the Bio-Dilutor is preset to 1:10 serial dilutions, but can be reprogrammed to any dilution factor between 1:1 to 1:1000.

Connected to an external balance, it can also be used as a gravimetric dilutor.

Features and Benefits:

- Entire liquid system is autoclavable thus reducing risk of contamination
- Quick and quiet operation
- The sample is kept contained in the disposable tip and is kept separated from the diluent by an air bubble



Masticators - Bag Mixers

Family of reciprocating paddle homogenizers mixers used for solid and semisolid samples. With a tradition of more than 18 years, the present models incorporate state-of-the-art mechanics and microprocessor technology.

Features and Benefits:

- Long tradition of reliability and robustness
- Uses springs to move the paddles
- Limitless duration assured
- Compact size, economical cost
- Small bench space

Optional - Bar code reader

Accessory attachable to the SILVER and MICROSILVER models to read bar code labels affixed to the homogenization bags.



2

Inoculation & Incubation

Eddy Jet Spiral Plater

Definitive plating instrument that uses disposable microsyringes for the spiral inoculation technique.

Distributes the liquid sample on the agar in an exponential or logarithmic decreasing manner from the center to the periphery.

Once incubated, the Petri plate shows a distribution of colonies smaller and more crowded in the center, and larger and more separated toward the periphery.

Counting colonies can be done automatically (see **CounterMat Flash**) or manually, using the appropriate grid.

By using disposable sample delivery syringes, the **Eddy Jet** has revolutionized the spiral plating technique. It has eliminated both the possible sample cross contamination that can occur in other devices and the need to rinse the system between samples. The microsyringes and beakers are irradiated with gamma rays and remain closed until use.



EDDY JET



Consumables

Features and Benefits:

- No risk of cross contamination with world wide patented microsyringes
- No downtime required for disinfection
- Direct and quick transition from validated existing outdated equipment, with pre-programmed spreading patterns
- Assuring high precision by monitoring all 6 zones of spreading on the plate



FOC 2251



FTC 901

Cooled Incubators

Velp Scientifica introduces 2 size incubators: 90 Liter and 220 Liter with adjustable temperatures from 3°C to 50°C and +/- 0.5°C accuracy.

Auto Tuning allows a very stable, homogeneous internal temperature even when the room temperature varies.

Software is available upon request, allowing to connect the incubator to a computer for data logging.



3 Colony Counting

Countermat Flash- Automatic Colony Counter and Zone -Inhibition

Automatically counts 90 mm diameter Petri plates for both pour plates or spiral distribution.

Also expandable to measure haloes of antibiotic inhibition zones. Consists of an exclusive reflection optical unit and dedicated software installed on external PC running Windows® 98/NT/2000/XP.

Features and Benefits:

- High reproducibility and accuracy on every count
- Interactive software easy to program
- Complete automation capability using the Plate Handler (see below)
- Preset programs for various agar plates mediums and spreadings

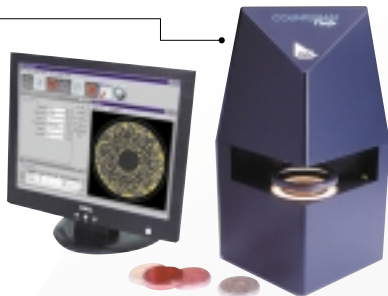


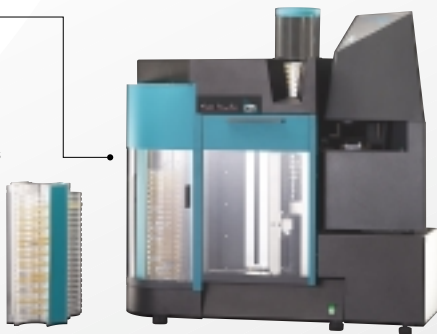
Plate Handler- Petri Dish Auto Feeder

The new generation in plate counting 80. plates can be counted in about 20 min.

Automation to process Petri dishes (90 mm) in an 80 plate capacity carousel (4 columns on 20 plates each). Removes one tower of the carousel and moves it to the lifting unit. The lifting unit then opens the plate. While retaining the lid, it turns the tower to read the bar code label attached to the wall of the plate. It then places the plate in the Countermat Flash for counting.

Features and Benefits:

- Compact unit with a small footprint
- Powerful software guides smooth transition and works with external databases
- Precision motion controls results in quiet operation



Haloes Caliper Zone - Inhibition

Allows manual measurement of the diameter for zones of inhibition through anenlarged image.

The procedure consists of pressing the setting to zero at the starting point, and by means of a precision dial, the Petri dish is moved to the opposite side of the zone.

Features and Benefits:

- Enlarged image, approximately double size
- Without parallax error, the screen prevents reading at the wrong angle
- Stable light source between the sample and standard

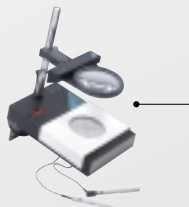


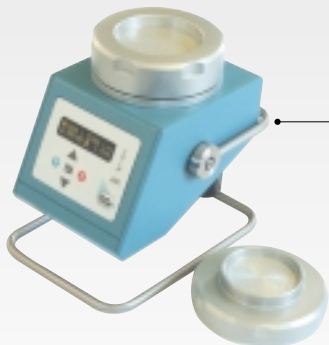
Manual Colony Counter

User-friendly manual counter. The pen is pressed to the plate, marking the plate and producing an audible "beep" that confirms the count has been registered in the digital readout.

Features and Benefits:

- High quality magnifier that allows using the unit for hours without fatigue
- Easy-to-change grids for reading transparent or opaque media for pour or spiral plates





Spin Air Air Sampler

Innovative air sampler for microbiological use. The air is boosted at a fixed flow rate against the agar surface of the 90 mm Petri dish or the 60 mm Rodac plate.

The patent pending, new development lies in the slow turning movement of the receiving Petri dish in conjunction with the design of the air channels. This combination assures that the entire plate surface receives the same amount of air. Potential overlap of microorganisms falling to the same position on the petri-dish is significantly reduces.

Features and Benefits:

- Steady airflow is continuously controlled by microprocessor assuring volume intake precision
- Complete surface of the plate receives microorganisms
- Optional slave unit for fast duplicate operation

Poly Stainer - Automatic Staining Bath

Programmable device for Cytological and Microbiological Staining procedures. Contains four washing compartments including a water wash and rinse followed by a forced air drying position. Symbolic characters make the program process easy. Memory capacity of 10 programs with 10 different position in each.

Features and Benefits:

- Optimal performance at an economic price
- Stainless steel container holder can be easily removed
- No risk to electronic component due to their high position
- Optional quick pump to empty the rinse water bath



Demo Bacterial Agar Plates

A unique demo kit of plastic agar plates with realistic touch and feel of various distributions of bacteria and media types is offered for validation and educational purposes.

5 Plate kit contains the following (Cat. No.8900)

- Transparent Pour Plate Agar with about 200 Small Light color Colonies
- White Pour Plate Agar with about 150 Medium Dark color Colonies
- Transparent Spiral plate with Small Light color Colonies
- Red Opaque Spiral Plate with Small Light color Colonies
- Transparent Zone inhibition plate with 6 Haloes

Other plates and combinations are available upon request.



IUL INSTRUMENTS

Driven by imagination, flexibility, creativity and innovation, IUL has created a family of instruments that the professionals in microbiological laboratories use and appreciate. All IUL instruments have at least one essential and special feature that distinguishes them from others of their type. At IUL Instruments and Neutec Group, we are always seeking new ideas that make microbiological analysis safer, more comfortable, and more accurate.



Equipment

| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Weight net (kg) | Power (W) | Delivery speed (ml/min) | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
|---|-----------------------|-----------------------|---------------------------------|--------------|---|--------------------|---|------------------------|
| Standard Delta Dilutor single pump | 2580 | 2510 | 0.1 | 20 | 950 | 13.6 (5) | 23x7x12.6 (590x180x320) | 1,2,3,4,5,6,7,8,9 |
| Delta Dilutor two pump | 2504 | 2502 | 0.01 | 20 | 950 | 13.6 (5) | 23x7x12.6 (590x180x320) | 1,2,3,4,5,6,7,8,9 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Timer (sec) | Power (W) | Motor speed (rpm) | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Complementary parts |
| Masticator Basic | 471 | 470 | analog 15-90 | 270 | 1500 | 375 (17) | 9.4x10.2x5.7 (240x260x400) | 1,10,11 |
| Masticator Basic Panoramic | 477 | 475 | analog 15-90 | 270 | 1500 | 375 (17) | 9.4x10.2x5.7 (240x260x400) | 1,10,11 |
| Masticator Silver | 461 | 420 | digital | 270 | 500-1500 | 44 (20) | 9.4x10.2x5.7 (240x260x400) | 1,10,11 |
| Masticator Silver Panoramic | 522 | 520 | digital | 270 | 500-1500 | 44 (20) | 9.4x10.2x5.7 (240x260x400) | 1,10,11 |
| Masticator Silver Compact Panoramic | 87 | 85 | digital | 50 | 1600-3100 | 15.4 (7) | 5.9x5.9x11.8 (150x150x300) | 2 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Weight res. (g) | Power (W) | Delivery speed ml/min | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Eddy Jet Spiral plater | T01 | T00 | disposable syringes | 440 | All units available on the market | 44 (20) | 19.7x12.6x16.1 (500x320x400) | 6,7,12,13,14,15,16 |
| Model | Cat. No. 115V/60Hz | Cat. No. 220V/50Hz | Capacity | Power (W) | Time | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Countermat Flash | 4001 | 4000 | 1 at the time | up to 70 | N/A | 28.6 (13) | 15.7x23.2 (11.400x590x280) | 20,21,22,30 |
| Countermat Flash plus zone inhibition software | 4007 | 4006 | 1 at the time | up to 70 | N/A | 28.6 (13) | 15.7x23.2 (11.400x590x280) | 20,21,22,30 |
| Countermat Flash High resolution camera | 6001 | 6000 | 1 at the time | up to 70 | N/A | 28.6 (13) | 15.7x23.2 (11.400x590x280) | 20,21,22,30 |
| Countermat Flash High resolution camera plus zone inhibition software | 6007 | 6006 | 1 at the time | up to 70 | N/A | 28.6 (13) | 15.7x23.2 (11.400x590x280) | 20,21,22,30 |
| Plate Handler- for countermat Flash | 4301 | 4301 | 80 to 96 plates | 500 | complete carousel 20 min | 108 (49) | 33x13.8x33.5 (840x350x850) | 23,30 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Internal Volume (liters) | Power (W) | Delivery speed Range (C) Accuracy (C) | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Incubator FTC 90I | F1041043 | F1040043 | 90 | 150 | 3-50 +/- 0.5 | 66 (30) | 21.75x23.25x23.5 (550x590x600) | 25,26 |
| Incubator FOC 225I | F1041041 | F1040041 | 225 | 300 | 3-50 +/- 0.5 | 89.1 (40.5) | 21.25x51.25x22 (540x1300x560) | 25,26 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Programmable dilution factor | Power (W) | Delivery speed max (ml/min) | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Biodilutor basic | B01 | B00 | 1.1 to 1:1000 | 40 | 4 with 10ml syringe | 13.2 (6) | 11.8x11.8x7.8 (300x300x200) | 27,28 |
| Biodilutor Advanced | B31 | B30 | 1.1 to 1:1000 | 40 | 4 with 10ml syringe | 13.2 (6) | 11.8x11.8x7.8 (300x300x200) | 27,28 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Magnification | Power (W) | Measuring range and accuracy | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Halos Cliper-Zone inition | 901 | 900 | x 2.25 | 50 | 0-35mm, 0.1mm | 6.6 (3) | 10.6x9.0x10.6 (270x230x270) | |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Counter | Power (W) | Equip with | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Manual colony counter w. two inputs | 1601 | 601 | 4 digits, 9mm LED display | 50 | Magnifying glass 0672 Marker and metal pointer | 6.6 (3) | 7.9x11.8x15.7 (200x300x400) | 24,30 |
| Manual colony counter w. one inputs | 1602 | 602 | 4 digits, 9mm LED display | 50 | Magnifying glass 0672 and Marker | 6.6 (3) | 7.9x11.8x15.7 (200x300x400) | 24,30 |
| Manual colony counter w. one inputs | 1604 | 604 | 4 digits, 9mm LED display | 50 | Magnifying glass 0671 and Marker | 6.6 (3) | 7.9x11.8x15.7 (200x300x400) | 24,30 |
| Manual colony counter w. two inputs | 1605 | 605 | 4 digits, 9mm LED display | 50 | Magnifying glass 0670 Marker and metal pointer | 6.6 (3) | 7.9x11.8x15.7 (200x300x400) | 24,30 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Power (W) | Control | Weight lbs (kg) | Battery | Accessories | |
| Spin Air 90mm Petri Dish | 5530 | 5500 | 100 | 15 | Microprocessor of time and air | 3.6 (1.7) | 8 hours capacity 7.2V Bimetal Hybrid | 18, 19 |
| Spin Air 60mm Petri Dish | 5531 | 5501 | 60 | 15 | Microprocessor of time and air | 3.6 (1.7) | 8 hours capacity 7.2V Bimetal Hybrid | 17, 19 |
| Spin Air Slave, 90mm Petri Dish | 5503 | 5503 | 100 | 15 | Requires Master unit | 3.6 (1.7) | 8 hours capacity 7.2V Bimetal Hybrid | 18, 19 |
| Spin Air Slave, 60mm Petri Dish | 5504 | 5504 | 60 | 15 | Requires Master unit | 3.6 (1.7) | 8 hours capacity 7.2V Bimetal Hybrid | 17, 19 |
| Model | Cat. No. 110V/60Hz | Cat. No. 220V/50Hz | Slide per Basket | Power (W) | Reagent containers | Weight lbs (kg) | Dimensions (W x H x D) inch (mm) | Accessories |
| Poly Stainer | 5301 | 5300 | Up to 20 | 250 | 4 | 50.6 (23) | 27.5x17.3x15.7 (700x440x400) | 29 |

Accessories

| N. | Description | Cat. No. | N. | Description | Cat. No. |
|----|---|----------|----|---|----------|
| 1 | Portabag stainless steel 6x400 ml bags holder | 2300 | 16 | Holder for old beaker sampling | 1829 |
| 2 | Portabag stainless steel 6x80 ml bags holder | 2380 | 17 | Set for 90mm Petri Dish (holder and cover) | 5504 |
| 3 | Polyethylene 80 ml bag holder | 2678 | 18 | Set for 60mm Petri Dish (holder and cover) | 5505 |
| 4 | Weighing platform for beaker flasks | 2511 | 19 | Cable for PC/Printer communication | 5510 |
| 5 | Multilevel dilution arm | 2512 | 20 | Del PC with flat monitor for Flash (software loaded) | 4100 |
| 6 | Communication cable for printer | 2514 | 21 | Cover for Countermat Flash | 4169 |
| 7 | Communication cable for balance | 2515 | 22 | Centering device for 50 mm Petri Dish | 4143 |
| 8 | Calibration weight 2000 gram | 2519 | 23 | Additional 80 petri dishes carousel for Plate handler | 4340 |
| 9 | Official certificate for Calibration weight 2000g | 2522 | 24 | Fiber Market "F" normal point "S" sine p. | 646 |
| 10 | Stand and tray for Masticator all models | 742 | 25 | Connecting cable for RS232 interface | 12.0010 |
| 11 | Tray only for Masticator | 743 | 26 | Incubator software | 12.0020 |
| 12 | Disposable irradiated Syringes (1000) | 1780 | 27 | Foot switch | 1348 |
| 13 | Disposable irradiated Beakers (1000) | 1790 | 28 | Hand held Staw system and delivery tube | 1455 |
| 14 | Plate for 9 cm petri dishes | 1715 | 29 | Quick Drain system for Poly Stainer | 5310 |
| 15 | Laminated table of volumes | 1724 | 30 | Demo plastic bacterial agar plate kit | 8900 |



A Joint Venture with Velp Scientifica and IUL Instruments

20 Phipps Lane, Plainview NY 11803 USA

Tel: +1-(516)-870-0877, Toll Free (800)-280-0726, Fax: +1-(516)-870-0422, info@neutecgroup.com

www.neutecgroup.com