

# IUL Instruments S.A. Automation in Microbiology

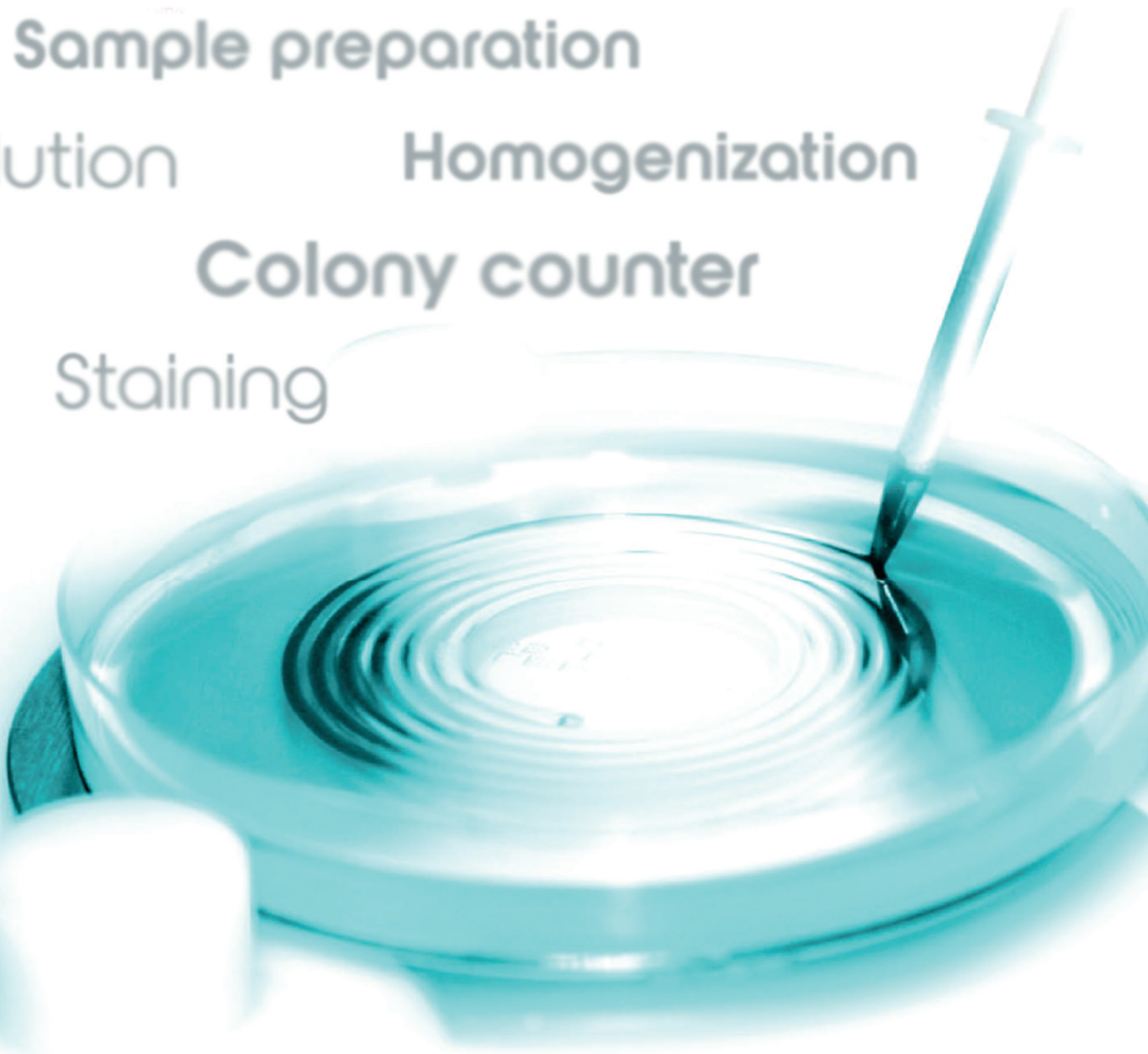
Sample preparation

Dilution

Homogenization

Colony counter

Staining





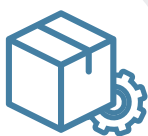
## We are at your service!

You have a scientific or technical question?  
A Project?  
An offer?

DEMO

## Would you like to test a system?

We offer demonstrations and tests in your laboratory



## Delivery, Installation & Training



## System maintenance

In your laboratory or at our premises by one of our technicians



## We are interested in your opinion!

We will forward your suggestions to the manufacturer



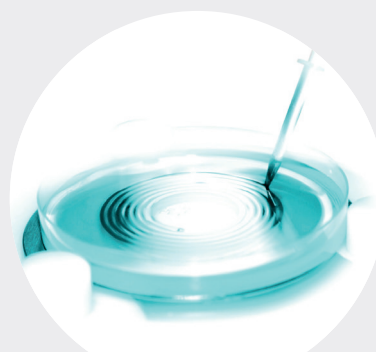
## Eddy Jet 2W Spiral plater

The EDDY JET 2W is an unsurpassed spiral plater, which further improves the proven quality standards of its predecessor model and continues well-known innovations such as the sterile disposable syringes. What has to be highlighted is the new programming and memory function. You can now create and save multiple program runs, easily and completely customized to your certain needs. Although the Eddy Jet 2W is mainly used in food, cosmetics, and pharmaceutical laboratories, any microbiology laboratory can largely benefit from its use. The spiral plate method reduces the lab time and number of Petri dishes that are normally required to perform serial dilutions in the laboratory. In addition, the EddyJet does not require disinfection steps or environmentally harmful disinfectants between sample applications; this increases the sustainability and profitability of your laboratory.



### Sterile disposable syringes

Cross-contamination is prevented by using disposable micro-syringes – just like hand pipetting. These are patented worldwide and provide the highest accuracy.



### Verification capability

Each spiral application can be checked at any time using a laboratory scale and the volume confirmed for 6 different zones.

Fully validated: Spiral plating is a fully validated microbiological method in accordance with ISO 7218/ AOAC 977.27/ FDA (BAM Ch.3).

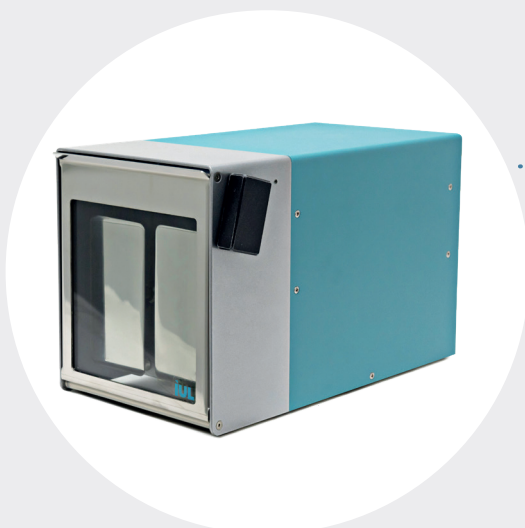
# 1 Sample preparation



## Smart Dilutor W Gravimetric Dilutor

The Smart Dilutor W offers an advanced automation solution to both gravimetric dilutions and liquid dispensing. The precise weigh cell and the powerful peristaltic pumps enable fast and efficient work at the highest accuracy. This device ensures precision, rapidity, and sterility in sample handling and preparation. The dilution solution can be taken from ready-to-use media bags and regular media ISO 4796 bottles.

- Weighing accuracy : <1%
- Dosing speed: 950ml/min
- Printer output for protocols
- Connection for a barcode reader



## Masticator Paddle Blender

The Masticator allows thorough homogenization of the sample in sample bags while protecting against external contamination due to its closed system. The Masticator's high-quality enduring motors ensure a safe and efficient blending of your samples and produce a homogeneous sample within a very short time which can be used for further analysis.

- Contamination of the sample is excluded
- For food and pharmaceuticals
- Easy to clean
- Various models available: 80mL, 400mL, and 3500mL
- Glass front window available for all models

Sterile sample and filter bags



BioDilutor  
Serial Dilutor



Overview of automation in Microbiology

Sample preparation • Dilution • Homogenization • Distribution • Counting • Staining

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2 Sample processing



Eddy Jet 2W  
Spiral plater

- Reproducibility >99%
- Easy programming
- 7 inch color touch screen display
- Connection for a barcode reader
- Petri dish sizes of 10 and 15 cm
- Sterile disposable syringes

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3 Sample analysis



Sphere Flash  
Automatic Colony Counter

The new SphereFlash is an automatic colony counter that meets all the requirements of a modern microbiology laboratory. The Colony Lite software performs colony counting in a very simple and reliable way. Thanks to the software and the patented illumination system, it counts out each colony in any type of medium. Even very small colonies are detected.

System-highlights

Software: Simple, intuitive, and powerful. Even in the Lite version, it recognizes a wide range of colony types.

Non-reflective lighting: Its patented spherical chamber eliminates reflections in the measurement area and provides uniform illumination for improved image capture, which lead to more reliable and consistent results.

Audit Trail: Safety-related chronological records documenting all events and activities.

Report generation: Easy and automatic creation of result reports e.g. in PDF format, with a customizable layout, e.g. your company's logo.

VERIFICATION • SAFETY • REQUIREMENTS

						Checking the functions e.g. order volume	CFR 21 Part 11	Conformity, meets the requirements
	Connection Barcode Reader	Computer	Connection Printer (RS 232 interface)	File formats	LIMS			
Smart Dilutor W	✓		✓			✓		✓
Masticator								✓
Bio Dilutor			✓					
Eddy Jet 2	✓		✓			✓		✓
DOT		✓						✓
Sphere Flash	✓	✓		.XLSX, .CSV, .TXT, PDF, .XML, .JPG	✓	✓	✓	✓
Spin Air	✓	✓	✓	.CSV, .XML	✓			✓



DOT  
Manual Colony Counter

The manual colony counter DOT makes it easy to count colonies on Petri dishes in microbiology. Counting colonies with the unaided eye is a slow and tedious task. IUL's colony counter DOT eases and quickens this process through the use of LED lighting and a high-quality magnifying glass. Operators can tick detected colonies with a specifically devised marker, meanwhile a digital display will increase the total counts. This increases the accuracy and speed of counting operations.

# 4

## ④ Mikrobiologische Probenahme



### Spin Air Air Sampler

The SPIN AIR air sampler works according to the impaction method and can be operated with 90 mm Petri dishes or 60 mm Rodac plates. Due to the unique design of the perforated plate and the rotation of the agar during operation, 100% of the agar surface is used, in contrast to conventional devices, which use only about 5%.

- Easily handling
- Compact
- Transportable

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## ⑤ Slide Staining for Microscopy

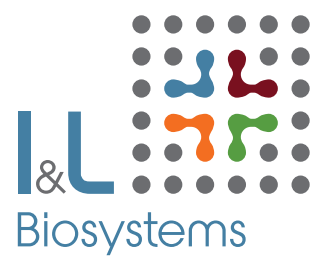


### Polystainer Automated Slide Staining

The POLYSTAINER is used to stain specimen material on slides. Common staining methods are, for example, Gram or May Grünwald staining. But also, other arbitrary staining methods can be stored in the 10 available program slots.

- Easy to use
- Fully automated
- Up to 20 slides can be stained simultaneously
- Own programs can be created

Present across Europe



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