



SMART DILUTOR

 **Sanilabo**
Sanitaria de laboratorio



www.iul-inst.com



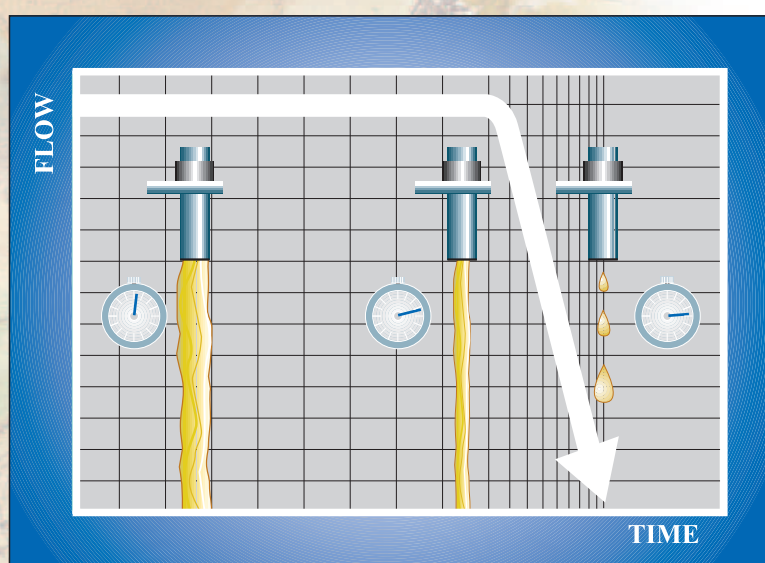
Sterility

All the tubing set and the bottle are fully autoclavable in order to assure the sterility of the dilution process. The whole operation of change the tubing set can be done in less of 15 seconds.

Save time at high accuracy

The attainment of the final weight is divided in two parts:

- * The row approach: Continuous and high flow until almost the end point.
- * The fine approach: Slow and controlled by time.
- * The two pumps instrument can perform the row approach using both pumps.



Multilevel arm

The instrument can work with other containers that require the use of one adjustable arm.

Follow the symbolic instructions that the touch screen gives continuously to the operator

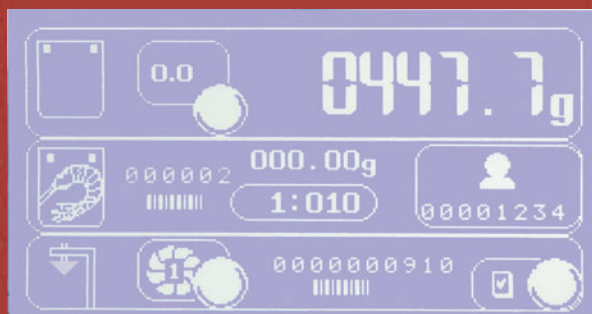
The trazability of the dilution can be followed using barcode labels:

- * sample id.
- * operator id.
- * solvent id.

And optional accessory enlarge the work of the instrument up to six different solvents

Complete system with the six pumps. The main instrument has the following connections:

- * RS-232
- * Barcode
- * Ethernet IP address



Features and operation

TECHNICAL DATA

General specifications:

Motor:	12 -15 V, dc
Delivery speed:	950 ml/min
Weigth range:	2400 g, tare included
Display resolution:	0.1 g
Weighing inaccuracy:	<1%
Weight resolution SAMPLE:	0.01 g
Weight resolution DILUTION:	0.1 g
Working temperature:	+5° C to +40° C
Data input/output:	Serial RS232 and Ethernet
Mains:	85~264 ACV, 50/60 Hz
Power:	40 W
Dimensions (WxHxD):	30x32,5x36,5cm 11.81x12.8x14.37 in
Weight:	6.5 kg/14.3 lb

Dilution specifications:

Maximum sample weight:	compatible with factor, tare and weight range
Dilution ratio:	any fraction with numerator and denominator in the 1 to 999 range.
Dilution inaccuracy:	<0.3 g adjustable

Dispensing specifications:

Dispensing weight:	1g to full range
Dispensing inaccuracy:	< 0.3 g

Specifications subject to change without prior notice

ORDERING INFORMATION

Cat-No.

SMART DILUTOR gravimetric dilution system complete with a polyethylene bag-holder, a set of tubing, filters, 5 litre bottle, a power cable, and an instruction manual. 2700

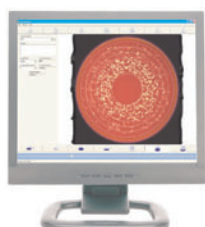
SMART DILUTOR gravimetric dilution system complete with two pumps, a polyethylene bag-holder, two set of tubings, filters, 5 litre bottles, a power cable, and an instruction manual. 2701

Specify mains required (the Cat.No. may change)

OPTIONAL ACCESSORIES

Cat no.

Weighing platform for beakers/flasks	2838
Multilevel dilution arm	2806
Cable PC/Printer communication	5510
Bar-code reader	5701
Support bar-code reader	2836
Four pumps device (no bottles)	2798
Six tubes arm (necessary for the Cat. 2798)	2823
PORTABAG stainless steel holder for 6 bags (400 ml)	2300



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The IUL instrument owners who are registered in our web will have access to extra services like example of microbiology applications with our instruments, software updates, direct technical service and more.



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Information



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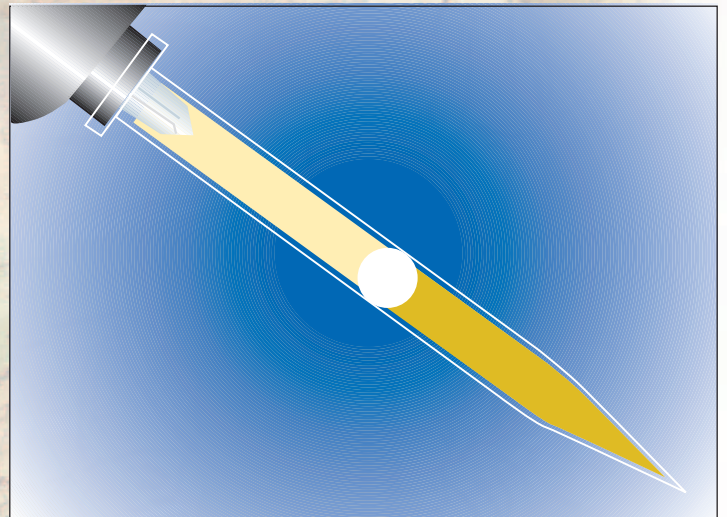
Sterile conditions

The periodic cleaning is absolutely essential in microbiology laboratories. All the parts of the liquid circuit of BIO DILUTOR are autoclavable.

Removal and reinstalling this liquid circuit takes only a few seconds.

Avoid the cross-contamination

When the BIO DILUTOR takes the sample an air bubble is generated to prevent the mix between the sample and the solvent. Once the operation has been done the tip is rejected.



Two interchangeable handgrips

The handgrip for tips allows the tip to be placed in its working position directly from the container.

The handgrip for straws is long enough to take the samples from the Masticator homogenizing bags.

Take the sterile
tip from
the container



Take the
sample and
the air bubble is
created



Dispense the
sample and
the solvent



Release the
used tip



Features and operation

TECHNICAL DATA

Motor	Stepping. Angle 7.5°. 9 W
Syringe volume:	10, 5, 2.5 or 1 ml autoclavable
Maximum flow speed:	4 ml/s with 10 ml syringe
Minimum volume step:	1/1000 of the total volume of syringe
Use of disposable tip:	Programmed from the beginning of process
Air bubble volume:	Programmable.
Sample volume:	Programmable. Limited to the tip volume (1300 µl)
Min. sample volume:	1% of the syringe volume used. Warning notice if it is less than 5%.
Dilution factor:	Programmable from 1:1 to 1:1000
Reproducibility:	Better than 1% even for dilutions using more than one single syringe stroke
Printer communication:	Serial RS 232, programmable
Mains:	100/240 V, 50/60 Hz
Power:	40 W
Dimensions (WxHxD):	30x30x20 cm
	11,8x11,8x7,8 cm
Weight:	6 kg/13,2 lb

FOR ADVANCED ONLY

Balance communication:	Serial RS 232, programmable
Gravimetric dilution:	By specific weight of solvent
Linked programs:	Up to 9

Specifications subject to change without prior notice

ORDERING INFORMATION

	Cat-No.
BIO DILUTOR with handgrip for tips, complete liquid circuit with bottle, 10 ml syringe and box of 60 units of gamma-irradiated tips.	BASIC 1300/1/2 ADVANCED 1310/1/2

Specify mains required (the Cat.No. may change)

CONSUMABLES

	Cat. no.
Syringe complete (10 ml). Stainless steel plunger	1509
Syringe barrel (10 ml) + 2 silicon washers	1510
Box of 24 containers of 60 tips each irradiated with gamma rays	1470
Bag 1000 disposable tips not irradiated	1322
Bag of 10 stainless steel holders (60 tips)	1480
Box of 24 empty containers	1490
Box of 1000 irradiated straws	1450

OPTIONAL ACCESSORIES

	Cat. no.
Stainless steel delivery tube for hand held	1502
Stainless steel delivery tube for 100 µl tips	1408
Handgrip for straws with stainless steel delivery tube, without silicone tubing (foot pedal needed)	1445
Foot pedal	1348
Autoclavable stand for syringes without syringe and adapter (no needed for 10 ml)	1330
Autoclavable syringe, 5 ml and adapter	1332+1335
Autoclavable syringe, 2.5 ml and adapter	1333+1336
Autoclavable syringe, 1 ml and adapter	1334+1337
Cable BIO DILUTOR-printer	2514
Cable BIO DILUTOR ADVANCED balance	2515
(State balance manufacturer and model when ordering)	



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