your quality partner worldwide

precision liquid volumetry

- Electronic micropipettes
- Digital reading micropipettes
- Digital setting micropipettes
- Positive displacement pipettes
- Repeater pipette
- Microdispenser pipettes
- Low profile dispensers
- Bottle-top dispensers
- Laboratory syringes
- Pipette controllers
- Pipette tips / consumables
- Work stations
- Service center

SOCOREX SWISS

we are 50

Welcome to Socorex – a world of expertise in prec

Dear Partner in science,

You are holding the new Socorex 2013-2014 catalogue edition, marking our company's 50th anniversary! It features a number of novelties you will enjoy discovering and using in your liquid dosing applications.

*A major step ahead in our product line is, without a doubt, the addition of the exceptional Calibrex™ **organo** and **solutae** bottle-top dispensers. Made of sturdy materials, well thought out in terms of innovative functions and metrological performance, the new Calibrex™ line has rapidly and successfully proven itself in the hands of demanding scientists.*

The new revolving Twister™ pipette stand also quickly met a great success. Distinct from any carousel unit available in the market so far, it fits all micropipette brands owed to its universal concept, while bringing a selection of bright colours to the lab bench.

Significant progress has been made with our long established international partner network, adding new forces where needed. Their details are listed in the Distributor section of our web site. Highly qualified, well documented and equipped to provide the best advice and technical support, they work hand in hand with the thousands of end-users trusting Socorex throughout the world.

I seize the opportunity to pay a special tribute to both communities for their loyalty and contribution to our successful growth over so many years.

Sincerely

Sylvain Christen, CEO

Brief history

Socorex Isba SA, often referred to as just Socorex per its original name, was first founded in the late 1940s. Two young watchmakers had identified the need for new types of quality syringes for medical applications. The products rapidly met international success.

In search of synergies, the company subsequently merged with another firm, moved to the city of Lausanne on Lake Geneva, changed name to become Socorex Isba SA and finally, under a new family ownership, built up-to-date premises in Ecublens – we are in 1963.

Fifty years later, still with the same shareholders, Socorex has grown its two distinct laboratory and animal health divisions, reflecting a long time strategic reconversion. An important 50th anniversary year, 2013 marked the inauguration of a major facility improvement programme. This included the construction of a new administration building and production plant expansion. Enlarged, the modern site will support the company's capacity to handle many more success stories in the future.

Products & services

Today's manufacturing programme includes a wide variety of high precision instruments used for reliably measuring, dosing, transferring, dispensing and injecting liquids in a large number of applications.

Manual and electronic micropipettes, single and multichannel pipettors, repeater pipettes, dispensers, pipette controllers and re-usable syringes, together with their accessories, constitute the heart of the programme.

Each precision instrument bears its own serial number and passes a strict performance control attested by an individual QC certificate.

The Socorex Service Center offers a global repair and calibration programme. The choices range from basic maintenance to accredited calibrations of all micropipettes and dispensers according to ISO 17025 – whatever their brand.

SWISS CALIBRATION SCS112 — SAS Accredited Service Laboratory ISO/IEC 17025

Sylvain Christen, CEO | Jean-Pierre Uldry, Director of Engineering | Pascal Durand, Admin. and Finance Manager | Thérèse Valenziano, Customer Service | Prisca Buchs, Customer Service

Laurence Louy-Drevici, Business Development | Tatjana Van Bogaert, CEO Assistant | Aurelie Stangoni, Customer Service | Beatriz Grasset, Sales Administration Manager

ision liquid handling

Our customers

We are proud to include virtually all private, industrial, academic and government laboratories as our customers.

Those are involved in routine research and educational activities in fields as diverse as life sciences – such as biotechnology and molecular biology – medicine, chemistry, pharmacology, environment, agriculture, etc.

Scientists are served efficiently by the dedicated network of Socorex distributors. Selected amongst the best suppliers, they carry an inventory of our products and provide technical support, repair and calibration services.

Find your closest Socorex partners listed on www.socorex.com

Quality achievements

Socorex's dedication to precision and quality has been an all-time tradition. Our commitment to manufacturing the most reliable instruments and offering the best services was formalised with the completion of the ISO 9001 and ISO 13485 Quality Management System certifications.

Product lines used in the In Vitro Diagnostics fields conform to the IVD 98/79 EEC directive for medical devices and are CE certified accordingly.

Instruments are designed to operate under national and international standards such as ISO 8655, GLP, GMP and NCCLS.

Warranty coverage is three years on all manual pipettors, two years on electronic pipettes, dispensers and repeaters.

Christele Donze, Customer Service

Susanne Henry, Communication Project Manager

Stephanie Boegli, Service Center

Yves Liechti, Logistics Manager

Yves Lachavanne, Marketing and Sales Support Manager

Pascal Forestier, Technical Support Manager

Jean-Pierre Cattin, Production Manager

Jean-Marc Ammann, Quality and Regulatory Affairs Manager

Product range

Electronic micropipettes
Acura® *electro* 3

Digital reading micropipettes
Acura® *manual* *and* Acura® *manual XS* 7

Digital setting micropipettes
Calibra® *digital* 14

Positive displacement pipettes
Acura® *positive* 16

Repeater pipette
Stepper™ / Ecostep™ 17

Microdispenser pipettes
Acura® *manual* 18

Low-profile dispensers
Acurex™ *compact* 19

Bottle-top dispensers
Calibrex™ *digital* 20

Laboratory syringes
Dosys™ 26

Pipette controllers
Profiller™ / Profillette™ 30

Pipette tips / consumables
Qualitips® 31

Work stations 37

Service center 39

electronic micropipettes

Latest up-grade of a successful line making electronic pipetting simpler and safer than ever. The microprocessor-controlled instrument includes intuitive software avoiding any complicated programming steps. No particular skills are required to get quick access to six working modes and many volumes to select from. Two-year warranty.

The Acura® *electro* models 926XS micro, 936 macro, 956 multi

Product advantages

- Optimal ergonomics, light weight
- Easy, intuitive, self-teaching programme
- Large display, reversible for right or left reading
- Swift-interchange battery pack
- Fast charge, long working autonomy
- Adjustable tip ejector* fitting most tips
- Pipetting cycle counter
- 27 interchangeable volumetric modules all fitting same control unit

* Socorex patented

Natural ergonomics ①

The Acura® *electro* offers shape, balance and working ergonomics resembling those of a manual instrument. But comfort is so greatly improved that pipetting and result consistency are just outstanding.

Unique "right or left" display reading ②

Display converts instantly to right or left side reading. All information clearly presented and visible at a glance during programming, pipetting and calibration steps.

Variable working speed ③

Located on the front side, speed selector allows swift change even during the pipetting process.
In addition, slow speed access at any time by gentle touch of start button.

Pipetting cycle counter ④

A simple double click gives access to the number of pipetting cycles performed since last zeroing.

Tip ejection – easier than ever ⑤

Maximal efficiency obtained with a large surface, ergonomically located ejector button. The shaft height adjustment system called Justip™ (4 mm span) - controlled by efficient click-stops - allows a wide selection of tips to tightly fit the nozzle.

The multichannel bowed shape ejector head permits effortless, sequential tip ejection.

Great built-in working flexibility
Surf through mode selection by pressing a single button.

Forward mode
Aspiration and pipetting of set volume. Suitable for all applications.

Reverse mode
Aspiration in excess, followed by dosing of set volume. Enhances reproducibility below 20 µL. Especially recommended for viscous and foaming liquids.

Stepper mode
Tip filling and step-by-step distribution. Best suited to aliquot samples.

Dilution mode
Aspiration of 2 or 3 different volumes for restitution in one shot. An easy way to dilute samples.

Tactile mode
"Start and stop" liquid measurement, titration and gel loading by simple touch of activation button.

Mixing
"Up and down" liquid flow in the tip / vial.

Interchangeable volumetric modules ③
One control unit fits a choice of 27 volumetric assemblies available separately. This greatly extends working possibilities and makes electronic pipetting affordable to all budgets. Disassembling and re-assembling without any tool contributes towards maximal flexibility. Calibration specificities of extra modules - as set by factory QC or by pipette owner - are retained in instrument memory.

Pipette charging stand ①
Stand allows charging and storing up to three electronic pipettes or battery packs simultaneously. Each position is fitted with a red/green charging LED. One stand supplied with every initial package.

Battery charging rack ②
Space saving stand holds up to three battery packs simultaneously. The ideal charging and storage accessory for spare batteries, available at any time.

Calibration ④
Control software gives immediate access to calibration menu.
Performance check possible over two or three independent volumes (Vmin, Vmid and Vmax). New settings entered directly from the keyboard.
Error message warns of any inaccurate plunger movement.

Long working autonomy ⑤
NiMH battery pack exchangeable instantly. Fast battery charging (< 1.5 hours) and extended working autonomy (> 3000 consecutive pipetting cycles). Battery charge level clearly visible on display. Automatic energy saving stand-by when unused.

ENERGY STAR® qualified power supply for a better environment

FREE OF HAZARDOUS SUBSTANCES

electronic micro- macro and multichannel pipettes

926 XS
micro

0.1 - 2 µL
0.5 – 10 µL
1 - 20 µL
2.5 - 50 µL
5 - 100 µL
10 - 200 µL
50 - 1000 µL

936
macro

0.1 - 2 mL
0.25 - 5 mL
0.5 - 10 mL

956
multi

0.5 - 10 µL
2.5 - 50 µL
10 - 200 µL
20 - 350 µL

The Acura® *electro* product advantages

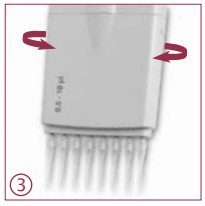
Micropipettes
- Reduced shaft length and conical end improve driveability
- Easy access to microtubes and microplates
- Optional longer volumetric modules
- Simple conversion by user at any time
- Unsurpassed metrological performance and stability

Macropipettes
- Interchangeable nozzle protection filter
- Adapters for Pasteur pipette and straw tips
- Outstanding accuracy and precision

Multichannel
- Large selection of 8- and 12-channel models
- Light weight and perfect hand fitting
- Sequential tip ejection
- Also fit any single channel volumetric module

Nozzle protection filter ①
Macro models accommodate a filter protecting instrument against liquid overflow and contamination. Located in the nozzle, it can be removed and changed easily.

Pasteur pipette - straw tip adapters ②
Optional accessories fit 2 mL glass Pasteur pipettes or 5 mL straw tip instead of Polypropylene tips.



Optimal working position ③
360° rotation of multichannel volumetric modules allows selection of the best working position.

Time efficient maintenance ④
Pipette construction limits maintenance to a minimum - no tool required to remove volumetric module. The pipetting cycle counter facilitates maintenance monitoring.

Whenever sterilisation is needed, volumetric modules can be autoclaved at 121°C / 250°F.

AUTOCLAVE AT 121°C

Initial package ⑤
Recommended when purchasing an Acura® *electro* for the first time, each initial package contains one electronic pipette, QC certificate and operating instructions, charging stand, power supply, additional battery pack, Qualitips® pipette tips samples. Thereafter, additional pipettes can be purchased alone and charged on existing stand.

Performance and ordering information – Instruments

Initial package includes pipette, charging stand and accessories. Additional pipettes (alone) supplied with individual QC certificate, Qualitips® pipette tips samples and operating instructions.

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Tip style	Cat. No. Initial package*	Cat. No. Pipette alone
		Min. vol.	Mid. vol.	Max. vol	Min. vol.	Mid. vol.	Max. vol			
Micropipettes Acura® electro 926XS										
0.1 – 2 µL	0.01 µL	<+/- 2.5 % [1]	<+/- 1.2 %	<+/- 0.9 %	< 2.5 % [1]	< 1.5 %	< 0.8 %	Ultra 10 µL	926.0002E	926.0002
0.5 - 10 µL	0.05 µL	<+/- 1.2 % [2]	<+/- 0.8 %	<+/- 0.6 %	< 1.5 % [2]	< 0.7 %	< 0.35 %	Ultra 10 µL	926.0010E	926.0010
0.5 - 10 µL	0.05 µL	<+/- 1.2 % [2]	<+/- 0.8 %	<+/- 0.6 %	< 1.7 % [2]	< 0.8 %	< 0.4 %	200 µL	926.0010YE	926.0010Y
1 - 20 µL	0.1 µL	<+/- 1.2 % [2]	<+/- 0.6 %	<+/- 0.5 %	< 1.2 % [2]	< 0.4 %	< 0.3 %	200 µL	926.0020E	926.0020
2.5 - 50 µL	0.25 µL	<+/- 1.0 % [2]	<+/- 0.6 %	<+/- 0.5 %	< 0.7 % [2]	< 0.3 %	< 0.25 %	200 µL	926.0050E	926.0050
5 - 100 µL	0.5 µL	<+/- 1.0 % [2]	<+/- 0.6 %	<+/- 0.5 %	< 0.7 % [2]	< 0.3 %	< 0.2 %	200 µL	926.0100E	926.0100
10 - 200 µL	1.0 µL	<+/- 1.0 % [2]	<+/- 0.6 %	<+/- 0.4 %	< 0.6 % [2]	< 0.2 %	< 0.15 %	200 µL	926.0200E	926.0200
50 - 1000 µL	5.0 µL	<+/- 0.8 % [2]	<+/- 0.5 %	<+/- 0.4 %	< 0.4 % [2]	< 0.15 %	< 0.1 %	1000 µL	926.1000E	926.1000
Macropipettes Acura® electro 936										
0.1 - 2 mL	0.01 mL	<+/- 1.5 % [2]	<+/- 1.0 %	<+/- 0.5 %	< 0.6 % [2]	< 0.3 %	< 0.15 %	2 mL	936.02E	936.02
0.25 - 5 mL	0.05 mL	<+/- 1.2 % [2]	<+/- 0.8 %	<+/- 0.5 %	< 0.6 % [2]	< 0.3 %	< 0.15 %	5 mL	936.05E	936.05
0.5 - 10 mL	0.05 mL	<+/- 1.0 % [2]	<+/- 0.7 %	<+/- 0.5 %	< 0.5 % [2]	< 0.2 %	< 0.15 %	10 mL	936.10E	936.10
8-channel pipettes Acura® electro 956										
0.5 - 10 µL	0.05 µL	<+/- 3.5 % [2]	<+/- 1.5 %	<+/- 1.0 %	< 3.0 % [2]	< 0.9 %	< 0.7 %	Ultra 10 µL	956.08.010E	956.08.010
2.5 - 50 µL	0.25µL	<+/- 1.0 % [2]	<+/- 0.9 %	<+/- 0.8 %	< 1.0 % [2]	< 0.6 %	< 0.4 %	200 µL	956.08.050E	956.08.050
10 - 200 µL	1.0 µL	<+/- 0.9 % [2]	<+/- 0.7 %	<+/- 0.6 %	< 0.6 % [2]	< 0.4 %	< 0.25 %	200 µL	956.08.200E	956.08.200
20 - 350 µL	5.0 µL	<+/- 1.0 % [2]	<+/- 0.8 %	<+/- 0.6 %	< 0.6 % [2]	< 0.4 %	< 0.25 %	350 µL	956.08.350E	956.08.350
12-channel pipettes Acura® electro 956										
0.5 - 10 µL	0.05 µL	<+/- 3.5 % [2]	<+/- 1.5 %	<+/- 1.0 %	< 3.0 % [2]	< 0.9 %	< 0.7 %	Ultra 10 µL	956.12.010E	956.12.010
2.5 - 50 µL	0.25 µL	<+/- 1.0 % [2]	<+/- 0.9 %	<+/- 0.8 %	< 1.0 % [2]	< 0.6 %	< 0.4 %	200 µL	956.12.050E	956.12.050
10 - 200 µL	1.0 µL	<+/- 0.9 % [2]	<+/- 0.7 %	<+/- 0.6 %	< 0.6 % [2]	< 0.4 %	< 0.25 %	200 µL	956.12.200E	956.12.200
20 - 350 µL	5.0 µL	<+/- 1.0 % [2]	<+/- 0.8 %	<+/- 0.6 %	< 0.6 % [2]	< 0.4 %	< 0.25 %	350 µL	956.12.350E	956.12.350

Performance values obtained in Forward mode with bi-dist. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655. Performance measured at: [1] 0.5 µL, [2] 10% of nominal volume

* Replace E by country code if other plug type than Europe style needed: G = UK, U = USA-Japan, A = Australia-NZ

Ordering information - Volumetric modules and accessories

①

②

③

④

⑤

Volume range	Tip style	Cat. No.
Single channel microvolumes ①		
Reduced shaft length		
0.1 - 2 µL	Ultra 10 µL	800.0002XS
0.5 - 10 µL	Ultra 10 µL	800.0010XS
0.5 - 10 µL	200 µL	800.0010YXS
1 - 20 µL	200 µL	800.0020XS
2.5 - 50 µL	200 µL	800.0050XS
5 - 100 µL	200 µL	800.0100XS
10 - 200 µL	200 µL	800.0200XS
50 - 1000 µL	1000 µL	800.1000XS
Regular shaft length		
0.1 - 2 µL	Ultra 10 µL	800.0002
0.5 - 10 µL	Ultra 10 µL	800.0010
0.5 - 10 µL	200 µL	800.0010Y
1 - 20 µL	200 µL	800.0020
2.5 - 50 µL	200 µL	800.0050
5 - 100 µL	200 µL	800.0100
10 - 200 µL	200 µL	800.0200
50 - 1000 µL	1000 µL	800.1000

Volume range	Tip style	Cat. No.
Single channel macrovolumes ②		
0.1 - 2 mL	2 mL	800.2000
0.25 - 5 mL	5 mL	800.5000
0.5 - 10 mL	10 mL	800.10000
8-channel microvolumes ③		
0.5 - 10 µL	Ultra 10 µL	800.08.010
2.5 - 50 µL	200 µL	800.08.050
10 - 200 µL	200 µL	800.08.200
20 - 350 µL	350 µL	800.08.350
12-channel microvolumes ③		
0.5 - 10 µL	Ultra 10 µL	800.12.010
2.5 - 50 µL	200 µL	800.12.050
10 - 200 µL	200 µL	800.12.200
20 - 350 µL	350 µL	800.12.350

See Qualitips® page 32 - 34

Description	Pack	Cat. No.
Charging units, 3 positions		
Stand for pipettes or battery packs ④	1 / pk	320.903.48
Stand for power handles only ⑤	1 / pk	320.913.48
Spare battery, blue colour		
NiMH, 4.8V	1 / pk	900.920.48
NiMH, 4.8V	2 / pk	900.922.48
Power supply, 100-240V		
Europe style plug	1 / pk	900.901.48E
UK style plug	1 / pk	900.901.48G
USA-Japan style plug	1 / pk	900.901.48U
Australia - NZ style plug	1 / pk	900.901.48A
Nozzle protection filters		
For 2 and 5 mL models	250/pk	322.05
For 10 mL model	100/pk	322.10
Adapter-nozzle - Pasteur pipette		
For 2 mL model	1 / pk	1.835.631
For 5 mL model	1 / pk	1.835.633
Adapter - 5 mL straw tip		
For 2 and 5 mL models	1 / pk	1.831.707

digital reading micropipettes

The Acura® *manual* are precision pipettes combining high-tech materials with exceptional, user friendly ergonomics. There is a choice between 825 model, the classic one for all applications and 826 *XS* micropipette specially dedicated to research. Both lines bring much more than superior performance and make pipetting safe and agreeable. Three-year warranty.

The Acura® *manual* 825 / 826 *XS*

Product advantages

- Smart and reliable volume adjustment
- Single-handed volume setting
- Precision digital display visible at all time
- Justip™ adjustable tip ejector* fitting most tips
- *Swift-set* user calibration system*
- Shock, UV-light and autoclaving resistance

* Socorex patented

825
micro

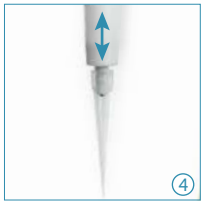
0.1 – 2 µL
0.5 – 10 µL
1 – 10 µL
2 – 20 µL
5 – 50 µL
10 – 100 µL
20 – 200 µL
100 – 1000 µL

Most comfortable pipetting ①

The Acura® *manual* fits everybody's hand with or without glove. Ergonomic shape, light weight and soft plunger travel care for better comfort.

Ejector button ②

Ergonomically positioned, the large surface, soft padded ejector provides for low-pressure activation.



Adjustable tip ejection ③ ④

Ejector shaft height adjustment system called Justip™ allows a wide selection of tips to tightly fit the nozzle.

Minimum maintenance / sterilisation ⑤

Easy disassembling for thorough cleaning. Sterilisation achieved by autoclaving instrument fully assembled (121°C / 250°F).

Performance and tip style - Acura® *manual* 825 and 826 *XS* micropipettes

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Tip style
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.	
0.1 – 2 µL	0.002 µL	< ± 6.0%[1)]	< ± 4.0%	< 2.0%	< 5.0%[1)]	< 3.3%	< 1.5%	Ultra 10 µL
0.5 – 10 µL	0.01 µL	< ± 2.5%[2)]	< ± 1.8%	< 1.0%	< 1.8%[2)]	< 1.2%	< 0.5%	Ultra 10 µL
1 – 10 µL	0.01 µL	< ± 2.5%	< ± 1.8%	< 1.0%	< 2.5%	< 1.6%	< 0.7%	200 µL
2 – 20 µL	0.02 µL	< ± 2.5%	< ± 1.8%	< 1.0%	< 1.7%	< 1.1%	< 0.5%	200 µL
5 – 50 µL	0.1 µL	< ± 1.5%	< ± 1.3%	< 1.0%	< 1.0%	< 0.7%	< 0.4%	200 µL
10 – 100 µL	0.1 µL	< ± 1.5%	< ± 1.2%	< 0.8%	< 1.0%	< 0.6%	< 0.2%	200 µL
20 – 200 µL	0.2 µL	< ± 1.5%	< ± 1.1%	< 0.6%	< 0.6%	< 0.4%	< 0.2%	200 µL
100 – 1000 µL	1 µL	< ± 1.5%	< ± 1.0%	< 0.5%	< 0.5%	< 0.4%	< 0.2%	1000 µL

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.
[1)] measured at 0.5 µL [2)] measured at 1 µL

826 XS
extra sharp

0.1 – 2 µL
0.5 – 10 µL
1 – 10 µL
2 – 20 µL
5 – 50 µL
10 – 100 µL
20 – 200 µL
100 – 1000 µL

Derived from the Acura® *manual* 825, the 826 *XS* line was designed with the research scientists in mind. Shorter, smoother, lighter in weight, the eight models offer key features aiming at excellence in pipetting.

The Acura® *manual* 826 *XS*

Added advantages, distinct from 825 line

- Excellent ergonomic shape and size ratio
- New springs and tightness seal for extra-smooth activation
- Reduced weight - lighter than leading brands (see weight chart below)
- Increased driveability with short, narrow shaft
- Conical shaft end for easy reach in smaller microtubes

Short shaft enhances precision of hand movement and guarantees superior driveability. A great help in fine applications such as pipetting in microtubes or microplates.

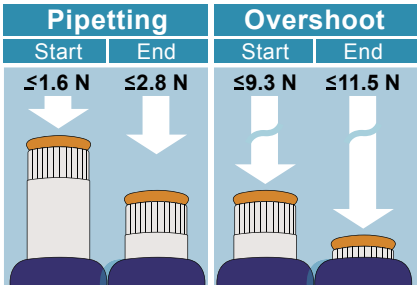
Instant calibration ① ②

Swift-set user calibration system - with integrated key and locking mechanism - makes tedious procedures a thing of the past. Easy and precise, it is in full compliance with international standards and recommendations.

Safety seal ③

Though easily removed when needed, the switch protection seal is autoclaving resistant.

Calibration seal stickers		
Replacement seals	25 / pk	1.825.025
Replacement seals	100 / pk	1.825.100



Extra smooth activation

Unique tightness lip seal and new springs provide for ultra-soft pipetting, reducing hand fatigue while working. Above forces, measured on a 20 - 200 µL model, are indicative of very limited finger efforts. Yet, the overshoot stop offers a clear tactile indicator.

* 1 Newton (N) ~ 0.1 kilogramme force (kgf)

Weights and ordering information - Acura® *manual* 825 and 826 *XS*

Volume	weight		Cat. N°.	
	825	826 XS	825	826 XS
0.1 - 2 µL	88 gr	84 gr	825.0002	826.0002
0.5 - 10 µL	88 gr	84 gr	825.0010	826.0010
1 - 10 µL	88 gr	85 gr	825.0010Y	826.0010Y
2 - 20 µL	88 gr	85 gr	825.0020	826.0020
5 - 50 µL	90 gr	86 gr	825.0050	826.0050
10 - 100 µL	92 gr	87 gr	825.0100	826.0100
20 - 200 µL	90 gr	86 gr	825.0200	826.0200
100 - 1000 µL	95 gr	88 gr	825.1000	826.1000

See Qualitips® page 32 - 34

micropipette saver packs and smarties

Pipette packs offer an extended choice of volume combinations, covering all individual requirements in any research or routine application. Available at attractive saver prices, they match with today's budget constraints.

The Acura® *manual* 825 / 835 Triopack

- Three adjustable micropipettes
- Large choice of volume combinations up to 10 mL
- Nine different packs

Ordering information - Triopack

Including: sampling of Qualitips®, silicone grease, Q.C. certificates and operating instructions

Pack	Contents (Micro / macropipette models)			Cat. No.
C	2 µL (0.1 - 2)	10 µL (0.5 - 10)	50 µL (5 - 50)	825.TRIO.C
J	2 µL (0.1 - 2)	20 µL (2 - 20)	200 µL (20 - 200)	825.TRIO.J
M	10Y µL (1 - 10)	50 µL (5 - 50)	200 µL (20 - 200)	825.TRIO.M

Pack	Contents (Micro / macropipette models)			Cat. No.
O	10 µL (0.5 - 10)	100 µL (10 - 100)	1000 µL (100 - 1000)	825.TRIO.O
P	10Y µL (1 - 10)	100 µL (10 - 100)	1000 µL (100 - 1000)	825.TRIO.P
S	20 µL (2 - 20)	200 µL (20 - 200)	1000 µL (100 - 1000)	825.TRIO.S

Pack	Contents (Micro / macropipette models)			Cat. No.
T	50 µL (5 - 50)	200 µL (20 - 200)	1000 µL (100 - 1000)	825.TRIO.T
V	100 µL (10 - 100)	1000 µL (100 - 1000)	5 mL (0.5 - 5)	825.TRIO.V
Y	1000 µL (100 - 1000)	5 mL (0.5 - 5)	10 mL (1 - 10)	835.TRIO.Y

The Acura® *manual* 826 TwiXS pack

- Two adjustable volume pipettes
- Free shelf pipette holder (see page 37)
- Volume combinations up to 1000 µL
- Six different packs

Ordering information - TwiXS pack

Including: shelf pipette holder, sampling of Qualitips®, silicone grease, Q.C. certificates and operating instructions

Pack	Contents (micropipettes)		Cat. No.
E	2 µL (0.1 - 2)	20 µL (2 - 20)	826.TWX.E
G	10 µL (0.5 - 10)	100 µL (10 - 100)	826.TWX.G
H	20 µL (2 - 20)	200 µL (20 - 200)	826.TWX.H
K	50 µL (5 - 50)	200 µL (20 - 200)	826.TWX.K
N	100 µL (10 - 100)	1000 µL (100 - 1000)	826.TWX.N
Q	200 µL (20 - 200)	1000 µL (100 - 1000)	826.TWX.Q

Smartie caps
Colour coding at will

All Acura® pipettes have colour-coded button caps for individual, lab or department identifications. Pick among 14 colours or choose the *smartie* mix for other colour combinations.

Colour	Cat. No.	Colour	Cat. No.
Alternative colour selection (6 / pk)			
White	1.825.710	Rose	1.825.719
Grey	1.825.715	Pink	1.825.720
Vanilla	1.825.716	Purple	1.825.721
Lemon	1.825.712	Ice blue	1.825.722
Yellow	1.825.717	Blue	1.825.713
Orange	1.825.718	Mint	1.825.723
Red	1.825.714	Green	1.825.711
Assorted colours (14 / pk)			1.825.700

digital reading macropipettes

Instruments combining high-tech materials with user-friendly ergonomics. Optimal for in- and outdoor environmental analysis, clinical chemistry and cell culture applications, they offer superior performance and make pipetting safer than ever. Three-year warranty.

835
macro

0.2 – 2 mL
0.5 – 5 mL
1 – 10 mL

The Acura® *manual* 835

Product advantages

- Smart and reliable volume adjustment
- Single-handed volume setting
- Interchangeable nozzle protection filter
- Justip™ adjustable tip ejector* fitting most tips
- *Swift-set* user calibration system*
- Shock, UV-light and autoclaving resistance
- Pasteur pipette fitting 2 and 5 mL models

* Socorex patented

Display always visible ①

Located on the front of the instrument, the display window allows set volume to be visible at all times during pipetting. A comforting reassurance for the user.

Nozzle protection filter ⑥

Protection against liquid overflow and contamination.

Smart and reliable volume adjustment ②

State-of-the-art micrometric volume setting is performed smoothly and precisely by turning push button. Finely machined click-stops and free rotating cap prevent any unwanted volume alteration.

Patented tip ejection system ③④

Ergonomically positioned, the large surface, soft padded ejector provides for low-pressure activation. In addition, the shaft height adjustment system called Justip™ allows optimal distance setting between ejector and tip.

Pasteur pipette adapter ⑤

Adapter nozzles allow fitting of Pasteur pipette on Acura® *manual* 2 and 5 mL models in addition to polypropylene tips. The adapters have two O-rings guaranteeing proper holding and tightness of standard 2 mL Pasteur pipettes (Ø 7 mm).

See consumables page 35 - 36

Performance and ordering information

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Tip style	Cat. No.
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.		
0.2 – 2 mL	0.002 mL	< ± 1.5%	< ± 1.0%	< ± 0.5%	< 0.5%	< 0.3%	< 0.2%	2 mL	835.02
								2 mL + Pasteur	835.02PP [1]
0.5 – 5 mL	0.01 mL	< ± 1.5%	< ± 1.1%	< ± 0.6%	< 0.6%	< 0.5%	< 0.3%	5 mL	835.05
								5 mL + Pasteur	835.05PP [1]
1 – 10 mL	0.01 mL	< ± 1.5%	< ± 0.7%	< ± 0.5%	< 0.5%	< 0.3%	< 0.2%	10 mL	835.10

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.
[1] Model includes Pasteur adapter nozzle.

fixed volume pipettes

Fixed volume micro and macropipettes show the most stable performance. They provide consistent results for any analytical or routine diagnostic tests by eliminating the risk of erroneous volume setting. Three-year warranty.

The Acura® *manual* 815 / 835F

Product advantages

- Slim ergonomic design and light weight
- Soft plunger activation
- Justip™ adjustable tip ejector* fitting most tips
- User calibration with integrated key
- Colour coded *smartie* cap
- Selection includes macropipette volumes

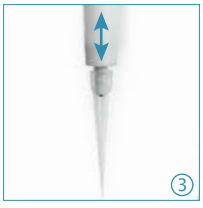
* Socorex patented

815 / 835F
fixed

1 µL to 10 mL

Tip ejection – easier than ever

Most ergonomically positioned, ①②③ the large surface, soft padded ejector button provides for low-pressure activation. In addition to ease of tip ejection, the shaft height adjustment system called Justip™ – controlled by efficient click-stops – allows a wide selection of tips to tightly fit the nozzle.



Performance and ordering information

Volume	Inaccuracy (E%)	Imprecision (CV%)	Tip style	Cat. No.
Acura® *manual* 815				
1 µL	< ± 2.0%	< 1.0%	Ultra 10 µL	815.0001
5 µL	< ± 1.4%	< 1.0%	Ultra 10 µL	815.0005
10 µL	< ± 0.7%	< 0.7%	Ultra 10 µL	815.0010
10Y µL	< ± 0.7%	< 0.8%	200 µL	815.0010Y
15 µL	< ± 0.7%	< 0.5%	200 µL	815.0015
20 µL	< ± 0.75%	< 0.5%	200 µL	815.0020
25 µL	< ± 0.7%	< 0.6%	200 µL	815.0025
30 µL	< ± 0.7%	< 0.6%	200 µL	815.0030
32 µL	< ± 0.7%	< 0.6%	200 µL	815.0032
40 µL	< ± 0.7%	< 0.5%	200 µL	815.0040
50 µL	< ± 0.7%	< 0.4%	200 µL	815.0050
60 µL	< ± 0.7%	< 0.5%	200 µL	815.0060
70 µL	< ± 0.7%	< 0.4%	200 µL	815.0070
75 µL	< ± 0.7%	< 0.4%	200 µL	815.0075
80 µL	< ± 0.7%	< 0.35%	200 µL	815.0080
90 µL	< ± 0.7%	< 0.3%	200 µL	815.0090
100 µL	< ± 0.7%	< 0.3%	200 µL	815.0100
120 µL	< ± 0.7%	< 0.4%	200 µL	815.0120

Volume	Inaccuracy (E%)	Imprecision (CV%)	Tip style	Cat. No.
Acura® *manual* 815 (Continued)				
150 µL	< ± 0.7%	< 0.3%	200 µL	815.0150
200 µL	< ± 0.7%	< 0.3%	200 µL	815.0200
250 µL	< ± 0.7%	< 0.4%	1000 µL	815.0250
300 µL	< ± 0.7%	< 0.4%	1000 µL	815.0300
400 µL	< ± 0.7%	< 0.3%	1000 µL	815.0400
500 µL	< ± 0.7%	< 0.3%	1000 µL	815.0500
600 µL	< ± 0.7%	< 0.3%	1000 µL	815.0600
700 µL	< ± 0.7%	< 0.2%	1000 µL	815.0700
750 µL	< ± 0.7%	< 0.2%	1000 µL	815.0750
800 µL	< ± 0.7%	< 0.2%	1000 µL	815.0800
900 µL	< ± 0.7%	< 0.2%	1000 µL	815.0900
1000 µL	< ± 0.6%	< 0.2%	1000 µL	815.1000
Acura® *manual* 835F				
2 mL	< ± 0.8%	< 0.5%	2 mL	835.F02
2.5 mL	< ± 0.8%	< 0.5%	5 mL	835.F02.5
5 mL	< ± 0.7%	< 0.3%	5 mL	835.F05
10 mL	< ± 0.5%	< 0.2%	10 mL	835.F10

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

See Qualitips® page 32 - 34

Built with the users in mind, these pipettes combine high-tech materials with exceptional, user-friendly ergonomics. They extend pipetting possibilities in 96-well microplates and guarantee outstanding performance and results. Three-year warranty.

855
multi

0.5 – 10 µL
5 – 50 µL
20 – 200 µL
40 – 350 µL

The Acura® *manual* 855

Product advantages

- 8- and 12-channel models up to 350 µL
- Light weight and perfect hand fitting
- Precision digital display visible at all time
- Justip™ adjustable tip ejector* fitting most tips
- *Swift-set* user calibration system*
- 360° rotation of volumetric module

* Socorex patented

Most comfortable pipetting

Ergonomic shape, lightweight and ultra-soft plunger travel are key elements of the Acura® *manual* pipettes.

855 models	Weight
8x 0.5 - 10 µL	155 gr
8x 5 - 50 µL	165 gr
8x 20 - 200 µL	165 gr
8x 40 - 350 µL	168 gr
12x 0.5 - 10 µL	184 gr
12x 5 - 50 µL	199 gr
12x 20 - 200 µL	201 gr
12x 40 - 350 µL	203 gr

Optimal working position ①

Revolving over 360°, the volumetric module (lower assembly) helps reaching the appropriate hand position.

Adjustable tip ejector ②

Position of tip ejector can be adjusted in no time within a 4 mm span to perfectly match with tips used. Bowed shape of ejector head guarantees effort-less, easy sequential tip removal.

Multichannel reservoirs ③

Well adapted for multichannel pipettes, the reagent reservoirs offer various shapes and volumes.

See consumables page 35 - 36

Performance and ordering information

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Tip style	Cat. No.
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.		
8-channel									
0.5 – 10 µL	0.01 µL	< ± 3.5%[1)]	< ± 2.5%	< ± 1.5%	< 3.0%[1)]	< 2.0%	< 1.0%	Ultra 10 µL	855.08.010
5 – 50 µL	0.1 µL	< ± 1.0%	< ± 0.9%	< ± 0.8%	< 1.0%	< 0.7%	< 0.4%	200 µL	855.08.050
20 – 200 µL	0.2 µL	< ± 0.9%	< ± 0.8%	< ± 0.7%	< 0.6%	< 0.5%	< 0.3%	200 µL	855.08.200
40 – 350 µL	0.4 µL	< ± 1.0%	< ± 0.9%	< ± 0.8%	< 0.6%	< 0.5%	< 0.3%	350 µL	855.08.350
12-channel									
0.5 – 10 µL	0.01 µL	< ± 3.5%[1)]	< ± 2.5%	< ± 1.5%	< 3.0%[1)]	< 2.0%	< 1.0%	Ultra 10 µL	855.12.010
5 – 50 µL	0.1 µL	< ± 1.0%	< ± 0.9%	< ± 0.8%	< 1.0%	< 0.7%	< 0.4%	200 µL	855.12.050
20 – 200 µL	0.2 µL	< ± 0.9%	< ± 0.8%	< ± 0.7%	< 0.6%	< 0.5%	< 0.3%	200 µL	855.12.200
40 – 350 µL	0.4 µL	< ± 1.0%	< ± 0.9%	< ± 0.8%	< 0.6%	< 0.5%	< 0.3%	350 µL	855.12.350

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.
[1)] measured at 1 µL

1:10 dilution pipette

Air displacement pipette with two pre-calibrated steps allows subsequent pipetting of 1 and 0.1 mL of the same liquid. Metal nozzle fits long straw tips to aspirate from narrow or deep reservoirs (i.e. Stomacher® bags). Ideal alternative to the graduated glass pipettes when performing serial 1:10 dilutions in bacteriology. Three-year warranty.

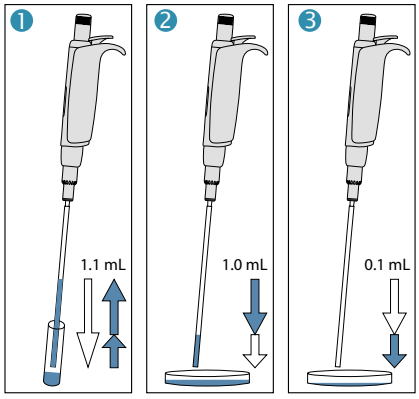
The Acura® *manual* 810

Product advantages

- Two pre-calibrated fixed volumes – no setting required
- Smooth activation, excellent ergonomics
- Interchangeable PE nozzle protection filter
- Justip™ system for height adjustment of tip ejector
- Independent calibration for each volume
- Easy maintenance, cleaning and disinfection
- Fully autoclavable 121°C / 250°F

810

1 + 0.1 mL



Simple operation

1. Depress plunger button in full, then release slowly to aspirate 1.1 mL
2. Depress plunger button to first stop, thus dispensing 1 mL in Petri dish
3. Depress plunger button to second stop, thus dispensing residual 0.1 mL in next Petri dish

No setting required ①

Two fixed volumes within one plunger travel.

Innovative dual calibration ②

Both volumes of 1 mL and 0.1 mL can be calibrated independently from each other. Calibration switch protected by seal sticker.

Justip™ ejector ③

Turn left or right to adjust ejector to straw tip position on the nozzle.

Straw tips ④

First class polypropylene. Size 190 mm. Specially designed for narrow vials and Stomacher® bags. Large diameter (4mm) prevents blocking by particles in suspension.

Performance and ordering information – Instrument

Volume	Inaccuracy (E%)	Imprecision (CV%)	Cat. No.
1 mL 0.1 mL	< ± 0.5% < ± 2.0%	< 0.4% < 2.5%	810.1100

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

Ordering information – Accessories

Description	Packaging	Cat. No.
Straw tips, polypropylene, sterilized (L: 190 mm, Ø:4 mm)	40x 25 / pk	313.1119.40
Nozzle protection filter, PE material	100 / pk	322.810
Work station 340 for 3 pipettes	1 / pk	320.340
Shelf pipette holder 332 for 2 pipettes	1 / pk	320.332
Shelf pipette holder 332 for 2 pipettes	4 / pk	320.332.4

digital setting micro and macropipettes

The combination of instant volume adjustment, mechanical precision and ease of use makes the Calibra® *digital* a most reliable and robust micropipette line in the market.
Three-year warranty.

The Calibra® *digital* 822 / 832

Product advantages

- Winding-free, instant volume adjustment
- Long term performance and calibration stability
- Robust, long lasting construction
- Shock, UV-light and autoclaving resistance
- Reliable user calibration
- Minimal maintenance requirements
- Interchangeable nozzle filter in all macro models

822
micro

0.2 – 2 µL
1 – 10 µL
2 – 20 µL
10 – 100 µL
20 – 200 µL
100 – 1000 µL

832
macro

0.2 – 2 mL
1 – 10 mL

Thin shaft shape helps reach contents from microtubes and/or narrow containers. The Calibra® provides convenient access into those hard to reach places.

Instant volume setting

Twin cam system fitted with pre-calibrated steps providing for true digital volume entry and numerical display.
The dual incrementation allows fast volume setting without tedious winding.

Key volume adjustment ①

Example: from 10 to 50 µL in half a revolution of the setting wheel placed in its normal position.

Fine-tuning adjustment ②

Example: from 50 to 55.5 µL in half a revolution of the setting wheel in its "pulled" position.

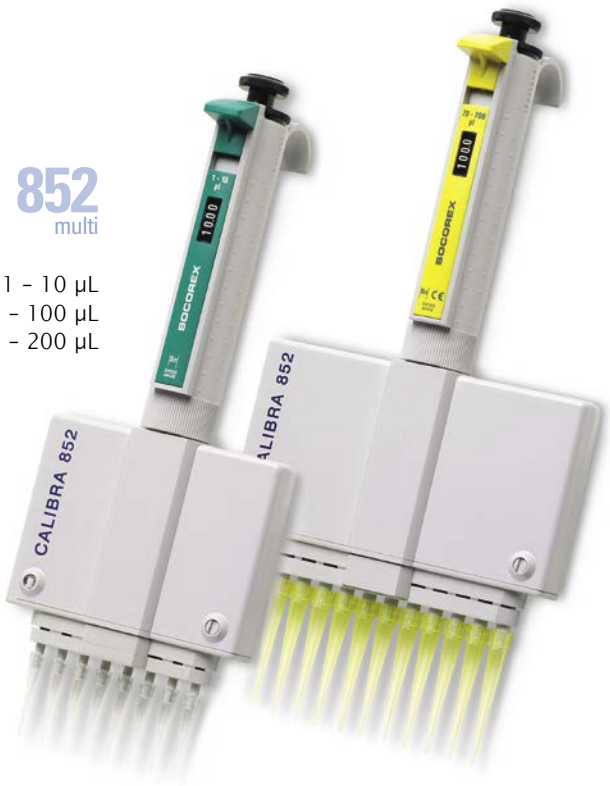
Performance and ordering information

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Tip style	Cat. No.
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.		
Calibra® *digital* 822									
0.2 – 2 µL	0.1 µL	< ± 6.0%[1)]	< ± 4.0%	< ± 2.0%	< 5.0%[1)]	< 3.3%	< 1.5%	Ultra 10 µL	822.0002
1 – 10 µL	0.05 µL	< ± 2.5%	< ± 1.5%	< ± 1.0%	< 2.0%	< 1.3%	< 0.5%	Ultra 10 µL	822.0010
1 – 10 µL	0.05 µL	< ± 2.5%	< ± 1.5%	< ± 1.0%	< 2.5%	< 1.6%	< 0.7%	200 µL	822.0010Y
2 – 20 µL	0.1 µL	< ± 2.5%	< ± 1.5%	< ± 1.0%	< 1.7%	< 1.1%	< 0.5%	200 µL	822.0020
10 – 100 µL	0.5 µL	< ± 1.5%	< ± 0.9%	< ± 0.8%	< 1.0%	< 0.6%	< 0.2%	200 µL	822.0100
20 – 200 µL	1.0 µL	< ± 1.5%	< ± 0.9%	< ± 0.6%	< 0.6%	< 0.4%	< 0.2%	200 µL	822.0200
100 – 1000 µL	5.0 µL	< ± 1.5%	< ± 0.6%	< ± 0.5%	< 0.5%	< 0.4%	< 0.2%	1000 µL	822.1000
Calibra® *digital* 832									
0.2 – 2 mL	0.01 mL	< ± 1.5%	< ± 1.0%	< ± 0.5%	< 0.5%	< 0.3%	< 0.2%	2 mL	832.02
1 – 10 mL	0.1 mL	< ± 1.5%	< ± 1.0%	< ± 0.5%	< 0.3%	< 0.3%	< 0.15%	10 mL	832.10

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.
1) measured at 0.5 µL

digital setting multichannel pipettes

8- and 12-channel micropipettes with winding-free, instant volume adjustment extend pipetting possibilities in microplates. Three-year warranty.



3 YEAR WARRANTY

ERGONOMIC COMFORT

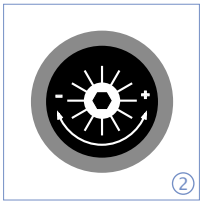
AUTOCLAVE AT 121°C

IVD CONFORM

The Calibra® *digital* 852

Product advantages

- Winding-free, instant volume adjustment
- Long term performance and calibration stability
- Lower assembly rotates 360° for optimal working comfort
- Easy sequential tip ejection
- Calibration simple to perform by user
- Shock, UV-light and autoclaving resistance



Easy in-lab calibration ①②

The calibration screw is located under the rubber pad. Engraved graduations help calibrate instrument quickly and precisely. Calibration key supplied with the instrument.

360° rotation ③

In addition to ergonomic hand fitting, the pipette lower assembly revolves for added user comfort.

Sequential tip ejection ④

Special shape of ejector head guarantees effortless, sequential easy tip ejection.

Multichannel reservoirs ⑤

Well adapted for multichannel pipettes, the reagent reservoirs come in various shapes and volumes. See page 36.

See Qualitips® page 32 - 34 ⑥

See pipette stands page 37 - 38

Performance and ordering information

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Cat. No.
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.	
8-channel								
1 – 10 µL	0.05 µL	< ± 3.5%	< ± 2.5%	< ± 1.5%	< 3.0%	< 2.0%	< 1.0%	852.08.010
10 – 100 µL	0.5 µL	< ± 1.0%	< ± 0.9%	< ± 0.7%	< 1.0%	< 0.7%	< 0.4%	852.08.100
20 – 200 µL	1.0 µL	< ± 0.9%	< ± 0.9%	< ± 0.7%	< 0.6%	< 0.4%	< 0.3%	852.08.200
12-channel								
10 – 100 µL	0.5 µL	< ± 1.0%	< ± 0.9%	< ± 0.7%	< 1.0%	< 0.7%	< 0.4%	852.12.100
20 – 200 µL	1.0 µL	< ± 0.9%	< ± 0.9%	< ± 0.7%	< 0.6%	< 0.4%	< 0.3%	852.12.200

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

positive displacement micropipettes

High performance positive displacement micropipettes with interchangeable glass capillary tube and ETFE tipped plunger. The soft shaped handle and smooth plunger activation provides for enhanced hand comfort while handling viscous liquids, foaming solutions or volatile solvents. Five models cover a range from 1 to 200 µL. Three-year warranty.

846

1 – 5 µL
5 – 25 µL
10 – 50 µL
60 – 100 µL
100 – 200 µL

The Acura® *capillar* 846

Product advantages

- Slim body shape, comfortable finger rest
- Smooth plunger activation
- Reliable, step-wise volume adjustment
- Colour codes matching on pipettes, plungers and capillaries
- Stainless steel, ETFE tipped plunger

Enhanced pipetting comfort ①

Instrument slim shape fits any hand. Comfortable hook enables pipette to rest naturally on finger. Well engineered spring system reduces plunger force requirement.

Pre-set volumes ②

Each pipette has five, easy to adjust pre-set volumes. Clear volume reading on pipette barrel.

Colour coding ③

Pipette, plunger tip and glass capillary bear colour coding for easy volume identification.

ETFE tipped plunger ④

Chemically inert ETFE material offers excellent resistance when coming in direct contact with liquids.

Workstation 340 ⑤

For up to three pipettes, any Socorex models. (Cat. No. 320.340).

Performance and ordering information - Instruments

Volumes	Inaccuracy (E%)			Imprecision (CV%)			Cat. No.
	Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.	
1-2-3-4-5 µL	< ± 3.0%	< ± 2.3%	< ± 2.0%	< 2.5%	< 2.0%	< 1.2%	846.005
5-10-15-20-25 µL	< ± 1.5%	< ± 1.2%	< ± 0.8%	< 1.0%	< 0.9%	< 0.6%	846.025
10-20-30-40-50 µL	< ± 1.2%	< ± 1.0%	< ± 0.7%	< 0.8%	< 0.7%	< 0.4%	846.050
60-75-80-90-100 µL	< ± 0.7%	< ± 0.7%	< ± 0.7%	< 0.6%	< 0.5%	< 0.3%	846.100
100-120-150-175-200 µL	< ± 0.7%	< ± 0.7%	< ± 0.7%	< 0.3%	< 0.3%	< 0.3%	846.200

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655. Model 846 not autoclavable.

Ordering information – Accessories

Colour code	Packaging	Cat. No.
Spare glass capillaries		
White	200 / pk	341.005
2x white	200 / pk	341.025
Green	200 / pk	341.050
Blue	200 / pk	341.100
Red	100 / pk	341.200

Colour code	Packaging	Cat. No.
Spare plungers		
Steel	5 / pk	342.005
White	5 / pk	342.025
Green	5 / pk	342.050
Blue	5 / pk	342.100
Red	5 / pk	342.200

Highly comfortable pipette intended for reliable repeat dispensing within 10 to 5000 µL. Unique trigger action mechanism eliminates thumb fatigue. Selected materials offer outstanding shock resistance. Compact shape greatly limits internal instrument contamination. Large selection among 53 different volumes; up to 73 doses per filling. Two-year warranty.

The Stepper™ 411

411

10 – 5000 µL

Product advantages

- 4-finger activation
- Setting knobs bear clear indication of volumes and number of aliquots
- Three positive displacement syringes, colour coded
- Self-locking mechanism

Fingertip activation ③

User friendly 4-finger trigger action eliminates thumb fatigue during repeat dosing. Automatic safety lock prevents false delivery when dosing is completed.

Clear setting indication ①②

After inserting disposable syringe, select appropriate volume. Markings on interchangeable selector buttons allow direct reading of set volume and corresponding number of aliquots.

Colour coding

Ecostep™ syringe and selector button bear colour coding to eliminate any setting error.

Ordering information

Description	Packaging	Cat. No.
Stepper™ 411 incl. 3 colour coded selector buttons, adapter, Ecostep™ syringe samples	1 / pk	411.5000
Replacement adapter for red Ecostep™ syringe	5 / pk	1.411.7
Stand for one Stepper ④	1 / pk	320.411

No. of aliquots	Volume µL	Volume µL	Volume µL
73	10	50	500
49	15	75	750
36	20	100	1000
29	25	125	1250
24	30	150	1500
20	35	175	1750
18	40	200	2000
15	45	225	2250
14	50	250	2500
12	55	275	2750
11	60	300	3000
10	65	325	3250
9	70	350	3500
8	75	375	3750
8	80	400	4000
7	85	425	4250
7	90	450	4500
7	95	475	4750
6	100	500	5000

Performance and ordering information – Ecostep™ syringes

Only three sizes cover full volume range from 10 to 5000 µL. PE/PP materials. Supplied non-sterile in bulk, or sterilized, single wrapped.

Volume	Syringe capacity	Performance at	Inaccuracy (E%)	Imprecision (CV%)	Sterilized	Packaging	Cat. No.
10 – 100 µL	0.75 mL	20 µL	< ± 1.5%	< 1.5%	no	100 / box	316.010
		100 µL	< ± 1.0%	< 0.8%	yes	100 x 1 / box	316.010.9
50 – 500 µL	3.75 mL	100 µL	< ± 1.0%	< 1.0%	no	100 / box	316.050
		500 µL	< ± 0.5%	< 0.5%	yes	100 x 1 / box	316.050.9
500 – 5000 µL	37.5 mL	1000 µL	< ± 0.8%	< 1.2%	no	100 / box	316.500
		5000 µL	< ± 0.5%	< 0.4%	yes	100 x 1 / box	316.500.9

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with method described in EN ISO 8655.

Acura® *manual*

self-refilling microdispenser pipette

Hand-held, self-refilling microdispenser intended for repeat distribution of microliter volumes. Carefully selected materials ensure durability and resistance to aggressive media. Instrument combines easy handling of a regular micropipette with flexibility of a repeater pipette.
There is no need for plastic tips or consumables, which may represent substantial savings.
Three-year warranty.

865

5 – 50 µL
20 – 200 µL
100 – 1000 µL

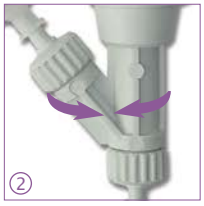
The Acura® *manual* 865

Product advantages

- Excellent ergonomics, soft plunger activation
- Large volume display
- Easy in-lab calibration
- No need for consumables
- Autoclavable fully assembled at 121°C / 250°F
- Versatile feeding through bottle, tubing or syringe

Excellent ergonomics ①

Instrument shape and lightweight offer most convenient pipetting comfort. Smooth plunger activation drastically reduces hand fatigue.



Convenient dispensing ②

Reliable valve system ensures high performance dispensing, dose after dose. It revolves to allow selection of the best working position.

Swift-set calibration system* ③④

Easy and precise system with integrated key and locking mechanism, making tedious procedures a thing of the past.

* Socorex patented

Chemical compatibility see page 25
Needles and cannulas see page 28

Socorex calibration seal — Protective calibration seal sticker

Choice of feeding sources

Supplied with 90 cm silicone tubing, the instrument also fits optional feeding sources: ❶ bottle, ❷ vial, ❸ syringe.

Great distribution flexibility

Outlet nozzle fits any Luer Lock needles and cannulas. Optional PTFE cannula provides enhanced chemical resistance. Use 4- or 8-channel manifold when dispensing into microplates.

Performance and ordering information – Instruments

Including: 90 cm silicone tubing, SS blunt end cannula, female Luer inlet valve cap, Q.C. certificate and operating instructions.

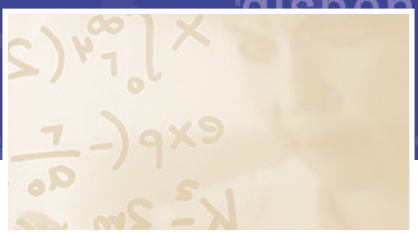
Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Cat. No.
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.	
5-50 µL	0.1 µL	< ± 5.0%	< ± 3.5%	< ± 1.5%	< 2.0%	< 1.4%	< 0.4%	865.0050
20-200 µL	0.2 µL	< ± 2.5%	< ± 1.8%	< ± 1.0%	< 1.5%	< 1.0%	< 0.3%	865.0200
100-1000 µL	1.0 µL	< ± 1.5%	< ± 1.1%	< ± 0.6%	< 0.6%	< 0.4%	< 0.2%	865.1000

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

Ordering information – Accessories

Description	Packaging	Cat. No.
Reservoir*, 30 mL, PP, Luer	1 / pk	1.861.631
Reservoir*, 30 mL, PTFE, Luer	1 / pk	1.861.21T
Vial holder*, Luer	1 / pk	1.861.925
Inlet valve cap*, female Luer (for syringe)	1 / pk	1.861.720
PTFE delivery cannula*	1 / pk	1.861.E32
Manifold*, 4-channel, Luer Lock, stainless steel (9mm spacing)	1 / pk	1.170.054
Manifold*, 8-channel, Luer Lock, stainless steel (20mm spacing)	1 / pk	1.170.058
Work station 340 for 3 pipettes	1 / pk	320.340

*Autoclavable



Compact dispensers for safe reagent handling, adapted to refrigerator storage as well as water bath heating. Dosing mechanism entirely protected inside reservoir. Manufactured and tested to fully comply with the latest regulations on instrument safety and precision. Volumes range from 0.2 to 30 mL. Two-year warranty.

501

0.2 – 2 mL
0.4 – 5 mL
1 – 10 mL
1 – 30 mL

The Acurex™ *compact* 501

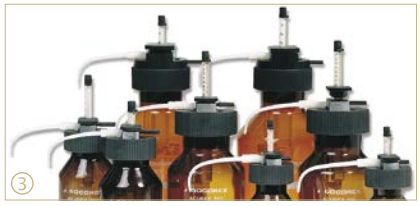
Product advantages

- Integrated dosing mechanism
- Simple, robust construction
- Retractable graduated column reduces instrument height
- Fluid path materials excluding any metal
- Choice of four reservoir sizes
- Fully autoclavable at 121°C / 250°F

Chemical compatibility
see page 25

Space saving low profile ①②

The graduated column is retractable for height reduction, making the dispenser ideal for storage in refrigerators.



Glass reservoir ③

Amber glass offers optimal light protection.

Autoclavable extension tubing ④

PTFE Jet-Pen™ and tubing help dispense into vessels with maximum comfort within a 60 cm distance. For 1 and 2 L reservoirs (Cat. No. 1.523).

Performance and ordering information

Volume	Division	Imprecision (CV%)			Reservoir capacity	Cat. No.
		Min. vol.	Mid. vol.	Max. vol.		
0.2 – 2 mL	0.1 mL	< 0.5%	< 0.35%	< 0.1%	250 mL	501.02025
0.2 – 2 mL	0.1 mL	< 0.5%	< 0.35%	< 0.1%	1000 mL	501.021
0.2 – 2 mL	0.1 mL	< 0.5%	< 0.35%	< 0.1%	2000 mL	501.022
0.4 – 5 mL	0.2 mL	< 0.5%[1)]	< 0.35%	< 0.1%	500 mL	501.0505
0.4 – 5 mL	0.2 mL	< 0.5%[1)]	< 0.35%	< 0.1%	1000 mL	501.051
0.4 – 5 mL	0.2 mL	< 0.5%[1)]	< 0.35%	< 0.1%	2000 mL	501.052
1 – 10 mL	0.2 mL	< 0.5%	< 0.35%	< 0.1%	1000 mL	501.101
1 – 10 mL	0.2 mL	< 0.5%	< 0.35%	< 0.1%	2000 mL	501.102
1 – 30 mL	1.0 mL	< 0.5%[2)]	< 0.35%	< 0.1%	2000 mL	501.302

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655. [1)] measured at 0.5 mL [2)] measured at 3 mL

Chemically inert materials

All parts in contact with the liquid are made from chemically inert materials:

Parts	Materials
Valve	Pyrex glass and synthetic ruby
Barrel	Neutral glass
Plunger	PTFE-coated glass
Reservoir	Amber glass
Delivery jet and union	PVDF / FEP / PFA

Calibrex™ *digital* bottle-top dispensers

Designed for performance handling of liquids from a large variety of bottles and flasks, the Calibrex™ dispenser combine the latest in dosing technology, high-tech materials and ergonomic design. They are manufactured and tested to fully comply with current safety regulations. Fixed versions also available in any volume within these ranges. Two-year warranty.

520

0.25 – 2 mL
1 – 5 mL
1 – 10 mL

The Calibrex™ 520

Product advantages

- Superior chemical resistance
- Long-lasting performance stability
- Simple construction – no tool for disassembling
- Instant volume setting
- In-lab calibration
- Autoclavable at 121°C / 250°F fully assembled

Friendly digital volume setting ①②

Fast and precise volume adjustment. Efficient click-stop mechanism prevents unwanted alteration.

Large display is easy to read; the window adjusts to desired side of instrument body. Each step on the cylindrical cam is pre-calibrated and corresponds to one division on the volume adjustment scale.

Large selection of bottles see page 24

Optimised working position ③

The instrument rotates 360° for adequate positioning on top of the bottle.

Air filter ④

Air inlet can be enlarged to receive a membrane filter, if airborne contamination is a concern.

In-lab calibration ⑤

Calibrex™ dispensers are factory calibrated and can be easily recalibrated by means of a dedicated adjustment screw.

Easy maintenance ⑥

Disassembling / reassembling is facilitated by the limited number of well-connected parts - no tool needed.

Superior material selection

Special attention is paid to component materials, providing for long instrument life. Parts coming in contact with the liquid flow are chemically inert.

Parts	Materials
Feed tube	PTFE
Intake valve	Ceramic
Valve balls	Pyrex glass
Valve spring	Platinum-iridium
Barrel	Borosilicate glass
Barrel plate / base	PTFE
Plunger	Glass with PFA coating
Outlet valve	Ceramic
Body	ETFE
Delivery jet assembly	PTFE/ETFE

Performance and ordering information

Calibrex™ have a 32 mm base thread.
They come with three adapters: 28, 40, 45 mm and feed tube 300 mm.

Volume	Division	Inaccuracy (E%)			Imprecision (CV%)			Cat. No. Adj. volume	Cat. No. Fixed volume*
		Min. vol.	Mid. vol.	Max. vol.	Min vol.	Mid. vol.	Max. vol.		
0.25 – 2 mL	0.05 mL	< ± 3.0%	< ± 1.8%	< ± 0.6%	< 0.5%	< 0.35%	< 0.1%	520.002	520.F02
1 – 5 mL	0.1 mL	< ± 2.0%	< ± 1.3%	< ± 0.6%	< 0.5%	< 0.35%	< 0.1%	520.005	520.F05
1 – 10 mL	0.25 mL	< ± 1.5%	< ± 1.1%	< ± 0.6%	< 0.5%	< 0.35%	< 0.1%	520.010	520.F10

* Specify desired fixed volume within instrument range when ordering. Performance values obtained with bidist. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

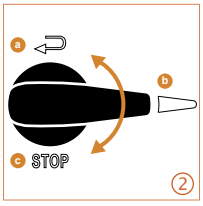
The new generation of robust instruments with excellent chemical resistance, high performance and easy maintenance. Fitting most reagent bottles, it enables safe and reproducible dispensing within volumes up to 25, 50 and 100 mL. Choose between the *organo* and the *solutae* models for adequate resistance to liquid dispensed. Two-year warranty

The Calibrex™ 525 / 530

525 / 530
2.5 - 25 mL
5 - 50 mL
10 - 100 mL

Product advantages

- Selection between two different models
- Permanent fluid path visibility
- Integrated calibration system
- Choice of adjustment button with each unit
- Flow control system with stopcock (optional)
- QR code accessing compatibility chart
- Autoclavable at 121°C / 250°F fully assembled



Ease of use ①
Smooth aspiration and distribution for trouble-free routine dispensing. Dual scale enables volume reading from a wide angle.

Flow control stopcock ②
Next to its dispensing position (b), device enables liquid priming and recycling (a) without reagent loss or contamination. Locking position (c) for safe dispenser transportation.

Choice of setting buttons
③ Sliding cursor softly moves up and down scale and precisely stops at desired graduation. Installed on each unit. ④ Alternative classical screw button supplied with each dispenser as an accessory. Easy to exchange by user.

Permanent visibility ⑤
Safety transparent thick sleeve around barrel and delivery jet window allow liquid flow monitoring.

Optimal working position ⑥
The instrument rotates 360° for adequate positioning on the bottle. Free rotating dispenser body makes volume clearly visible from any position.

Model differentiation

organo — Organics | Non-crystallizing sol. | Inert reagents | Salt solutions | Strong acids* & bases — solutae

* Except hydrofluoric acids (HF)

Material selection

Parts in contact with liquid flow are chemically inert, providing for stability and long instrument life.

Parts	525 *organo*	530 *solutae*
Feed tubing	FEP	
Valve body	Ceramic	
Valve balls	Ceramic	
Valve spring	Platinum-iridium	
Valve plate	PTFE	
Barrel	Borosilicate glass	
Plunger	Ground glass	PFA coated glass
Connecting body	ETFE	
Delivery jet	FEP / PCTFE	
Stopper	ETFE	

Chemical compatibility see page 25

Chemical resistance ④

Scan QR code to access chemical resistance chart.

Air filter ①

Air inlet can be enlarged to receive a membrane filter, if airborne contamination is a concern.

Easy In-lab calibration

② Access protected by safety seal sticker.
③ Mechanism with integrated key located under plunger cap. Engraved +/- arrows for easy and precise setting.

Maintenance ⑤

Disassembling/reassembling facilitated by limited number of parts – no tool needed. Key elements such as valves, plunger, barrel and delivery jet removable in seconds for cleaning. Fully autoclavable at 121°C / 250°F.

Performance and ordering information - Calibrex™ 525 and 530

Supplied with 45 mm base thread, 120 mm delivery jet and stopper, 350 mm feed tube, alternative screw-type volume setting button, three bottle neck adapters (32, 38 and 40 mm), QC certificate and operating instructions. Both models available with and without stopcock.

Range mL	Division mL	Inaccuracy (E%)			Imprecision (CV%)			Calibrex™ *organo* 525		Calibrex™ *solutae* 530	
		Min.vol	Mid.vol	Max.vol	Min.vol	Mid.vol	Max.vol	Regular (no stopcock)	With stopcock	Regular (no stopcock)	With stopcock
2.5-25	0.5	< ± 1.5%	< ± 1.1%	< ± 0.6%	< 0.5%	< 0.35%	< 0.1%	525.025	525.025FC	530.025	530.025FC
5-50	1.0	< ± 1.5%	< ± 1.1%	< ± 0.6%	< 0.5%	< 0.35%	< 0.1%	525.050	525.050FC	530.050	530.050FC
10-100	1.0	< ± 1.5%	< ± 1.1%	< ± 0.6%	< 0.5%	< 0.35%	< 0.1%	525.100	525.100FC	530.100	530.100FC

Performance values obtained by a smooth and steady pace movement, with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C, according to EN ISO 8655.
Warning: omission to untighten connecting body ring before autoclaving, and / or over-tightening ring when dispensing, may reduce performance.

④

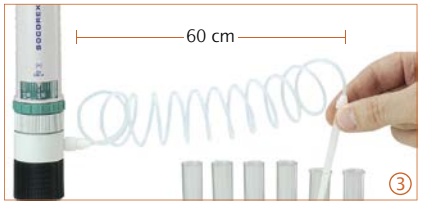
⑤

Flow control stopcock ①

Device compatible with any Calibrex™ 525 / 530. Enables liquid priming and recycling without reagent loss or contamination. No tool needed to assemble or to remove for cleaning. Fully autoclavable.

①

②



③

Delivery jet ②

Standard (120 mm) and extended (150 mm) assemblies are exchangeable without any tool. Fully autoclavable.

Description	Pack	Cat. No.
Flow control stopcock, fits Calibrex™ 525 / 530		
For all models	1 / pk	1.525.546
Delivery jet assembly, 120 mm, fits Calibrex™ 525/530		
For 25 mL dispenser	1 / pk	1.525.120
For 50, 100 mL dispensers	1 / pk	1.525.121
Delivery jet assembly, extended, 150 mm, fits Calibrex™ 525/530		
For 25 mL dispenser	1 / pk	1.525.150
For 50, 100 mL dispensers	1 / pk	1.525.151

Extension tubing ③

Tubing and delivery Jet-Pen™, help dispense into vessels with maximum comfort within a 60 cm distance. No tool needed to assemble or to remove for cleaning. Fully autoclavable.

Description	L./Mat.	int. Ø	Cat. No.
Extension tubing and Jet-Pen™			
Fits Calibrex™ 520/521 up to 20 mL	600 mm PTFE	2.2 mm	1.524
Fits Calibrex™ 525/530 up to 25 mL	600 mm FEP/PCTFE	4 mm	1.525.625
Fits Calibrex™ 525/530 50 and 100 mL	600 mm FEP/PCTFE	4 mm	1.525.650

Dispenser stability ④

Stand holds dispenser when screwed on small-size bottle.

Remote aspiration ⑤

Work station facilitates liquid intake from drum or other remote container (< 10 m distance, < 2 m elevation).

Description	Pack	Cat. No.
Work station for dispenser stability		
Fits Calibrex™ 520 dispenser	1 / pk	320.SB050
Fits Calibrex™ 525/530 dispensers	1 / pk	320.SB100
Work station for remote liquid intake		
Fits Calibrex™ 520 dispenser*	1 / pk	320.BC050
Fits Calibrex™ 525/530 dispensers*	1 / pk	320.BC100
Connector and remote feed tubing for Calibrex™ 525/530	1 / pk	1.525.581

* Dispenser and feed tubing / connector to be ordered separately

Reagent bottles ①

Large selection of glass and polyethylene reagent bottles, each supplied with one screw cap. Perfectly adapted with all bottle top dispensers. Corresponding neck adapters supplied with the dispensers.

Shape	Volume	Neck, ext. ø	Cat. No.
Amber glass[1]			
Square	100 mL	32 mm	314.0100
Square	250 mL	32 mm	314.0250
Square	500 mL	32 mm	314.0500
Square	1000 mL	45 mm	314.1000
Round	2500 mL	45 mm	314.2500
Amber glass, with handle[1]			
Round	2500 mL	45 mm	314.2500H
PE-coated Amber glass[2]			
Square	500 mL	32 mm	314.0500PE
Square	1000 mL	45 mm	314.1000PE
Round	2500 mL	45 mm	314.2500PE
Clear Borosilicate glass[1]			
Round	250 mL	45 mm	314.0250C
Round	500 mL	45 mm	314.0500C
Round	1000 mL	45 mm	314.1000C
Round	2000 mL	45 mm	314.2000C
Clear Pyrex glass, with connection neck[1]			
Round	500 mL	32 mm	314.0500P
Polyethylene[2]			
Square	250 mL	25 mm	315.0250
Square	500 mL	25 mm	315.0500
Square	1000 mL	32 mm	315.1000
Square	2500 mL	45 mm	315.2500

[1] autoclavable, [2] not autoclavable

①

Bottle-neck adapters

④ Calibrex™ 525/530 have a 45 mm base thread. They come along with three PP material bottle neck adapters in 32, 38 and 40 mm diameters. For other bottle neck diameters, use 32 mm adapter (cat. No. 1.525.GL32) nested with any Calibrex™ 520 adapters.

②

Calibration seal stickers ②

Autoclavable seal sticker protects access to the calibration mechanism of Calibrex™ 525/530 models.

Description	Pack	Cat. No.
Safety seal sticker	25 / pk	1.525.525
Safety seal sticker	100 / pk	1.525.526

③

Replacement tubing ③

Feed tubing available either cut to the standard size, or uncut by the meter.

Description	Length	int. Ø	Cat. No.
Feed tubing, FEP, for Calibrex™ 525/530			
For all sizes, cut	350 mm	7 mm	525.350
For all sizes, by the meter, uncut	specify	7 mm	525.706
Feed tubing, PTFE, for Calibrex™ 520/521			
For 520 all sizes, cut	300 mm	5 mm	511.707
For 521, 20 mL, cut	300 mm	7.5 mm	521.621
For 521, 50 mL, cut	300 mm	10 mm	521.622
For 521, 100 mL, cut	375 mm	10 mm	521.623
For 520 all sizes, by the meter, uncut	specify	5 mm	511.709
For 521, 20 mL, by the meter, uncut	specify	7.5 mm	521.705
For 521, 50 and 100 mL, by the meter, uncut	specify	10 mm	521.706

④

⑤

⑤ Calibrex™ 520 have a 32 mm base thread. They come along with three PP material bottle neck adapters in 28, 40 and 45 mm diameters. For other bottle neck diameters, simply order the appropriate adapter size.

Type	Ext. Ø of bottle neck	Cat. No.
Adapters for Calibrex™ 525/ 530		
Threaded, PP	32 mm	1.525.GL32
Threaded, PP	38 mm	1.525.GL38
Threaded, PP	40 mm	1.525.GL40
Adapters for Calibrex™ 520 / 521		
Threaded, PP	22, 25, 28, 30, 34, 36, 38, 40, 45 mm	GLP + Ø
Threaded, PTFE	36, 38, 40, 45 mm	GLT + Ø
Tapered, PP	18.8, 24, 29.2, 45 mm	NSP + Ø
Tapered, PTFE	18.8, 24, 29.2 mm	NST + Ø

Microdispenser and dispenser

chemical resistance chart

Chemicals A - H	Acura 865	Acurex 501	Calibrex 520	Calibrex 525	Calibrex 530
Acetaldehyde (Ethanal)	C/2	A	A	A	A
Acetic acid 96%	B/2	A	A	A	B/2
Acetic acid 100% (Glacial)	B/2/3	A	A	B/4	B/2/4
Acetone (Propanone)	C/2/3	A	B/4	B/4	B/4
Acetonitrile (MECN)	B/2	A	A	B/4	B/4
Amino acids	B/1/4	A	A	C/1	A
Ammonium hydroxide (amonia)	C/2	A	A	B/4	B/4
Amyl alcohol (Pentanol)	A	A	A	A	A
Aniline	B/2	A	A	A	A
Ascorbic acid	B/1	A	A	C/1	A
Benzaldehyde	C/2	A	A	A	A
Benzene	C/3	A	B/4	B/4	B/4
Boric acid 10%	B/1/4	A	A	B/1	A
Bromine	B/2/3	B/2	B/2	C/4	C/2/4
Butanol	B/2/3	A	A	A	A
Butanone (MEK)	C/2	A	B/4	B/4	B/4
Butyl acetate	C/2	A	A	B/4	B/4
N-Butylamine	C/2/4	B/4	B/4	B/4	B/4
Calcium chloride	B/1/4	B/1	A	C/1	A
Calcium hydroxide	B/1/4	B/1	B/1	C/1	B/1
Carbon disulfide	B/2/3/4	A	A	B/4	B/4
Carbon tetrachloride	C/3	A	A	B/4	B/4
Chlorine dioxide	C/2/4	B/2/4	B/2/4	B/4	B/2/4
Chlorobenzene	B/2	A	A	B/4	B/4
Chlorobutane	B/4	A	A	B/4	B/4
Chloroethanol	B/2	A	A	B/4	B/4
Chloroform	C/2/4	A	B/4	B/4	B/4
Chlorosulfuric acid 100%	C/4	B/2/3	B/3	B/3/4	B/3/4
Chromic acid 100%	B/4	B/2/3	B/3	B/3/4	B/3/4
Citric acid	A/1	A	A	B/1	A
Cyanoacrylate	C/1/2/4	C/1	C/1	C/1	C/1
Cyclohexane	B/2/3	A	A	B/4	B/4
Cyclohexanone	C/2	A	A	B/4	B/4
1,4-Dioxane (Diethylene dioxide)	C/2	A	A	B/4	B/4
Dichlorobenzene	B/4	A	A	A	A
Dichloroethane (DCE)	B/4	B/4	B/4	A	A
Diesel oil (Heating oil)	B/3	A	A	A	A
Diethylene glycol	B/4	A	A	A	A
Diethylether	C/2	A	A	B/4	B/4
Dimethyl sulfoxide (DMSO)	B/1/2/4	A	A	B/1/4	B/4
Dimethylformamide (DMF)	C/2/4	A	B/4	B/4	B/4
Ethanol	B/2/4	A	A	A	A
Ether	C/2/3	A	B/4	B/4	B/4
Ethyl acetate	C/2/3/4	A	A	B/4	B/4
Ethylenediamine	C/2	A	A	A	A
Ethylene glycol	B/4	A	A	A	A
Formaldehyde (Formalin)	A	A	A	A	A
Formamide	B/2/4	A	A	A	A
Formic acid	C/2/4	A	A	A	A
Gamma-butyrolactone	C/2/4	A	A	A	A
Gasoline	C/3	A	A	B/4	B/4
Glycerin <40%	A	A	A	A	A
Heptane	B/3	A	A	A	A
Hexane	B/3	A	A	A	A
Hydrochloric acid 20%	C/4	B/2/3	A	A	A
Hydrochloric acid 37% (HCl)	C/4	B/2/3	A	B/3	B/3
Hydrofluoric acid (HF)	C/2/4	C/5	C/5	C/5	C/5
Hydrogen peroxide	B/3/4	A	A	A	B/2

Chemicals I - Z	Acura 865	Acurex 501	Calibrex 520	Calibrex 525	Calibrex 530
Iodine	B/1/2/3/4	A	A	C/1	B/1
Iodine bromide / chloride	C/2/4	C/2/4	C/2/4	C/4	C/2/4
Isooctane	B/3	A	A	A	A
Isopropanol	A	A	A	A	A
Isopropylamine	B/2/4	A	A	B/4	B/4
Lactic acid	C/1/4	A	A	C/1	A
2-Methoxyethanol	B/2/4	A	A	A	A
Methanol	C/2/4	A	A	A	A
Methyl chloride (Chloromethane)	C/3/4	A	A	B/4	B/4
Methyl methacrylate (MMA)	C/2/4	A	A	B/4	B/4
Methyl propyl ketone (2-Pentanone)	C/2/3/4	B/4	B/4	A	A
Methylene chloride (Dichloromethane) (DCM)	C/3/4	A	B/2/4	B/4	B/2/4
Nitric acid 100%	B/2/4	B/2/3	B/3	C/3/4	C/2/3/4
Nitric acid dil. <30%	B/2/4	A	A	B/4	B/4
Nitro-hydrochloric acid (Aqua regia)	C/4	B/2/3	B/3	B/4	B/2/4
N-methyl-2-pyrrolidone (NMP)	B/4	A	A	A	A
Octane	B/3	A	A	A	A
Octanol	A	A	A	A	A
Oil, mineral (engine oil)	A	A	A	A	A
Oil, vegetable, animal	B/2	A	A	B/4	B/4
Oil of turpentine	B/2	A	A	B/4	B/4
Oxalic acid	B/1/4	A	A	C/1	A
Pentane	B/3/4	B/4	B/4	B/4	B/4
Perchloric acid 100%	B/4	B/2/3	B/3	B/4	B/4
Perchloric acid diluted	B/4	A	A	A	A
Petroleum	B/3	A	A	B/4	B/4
Petroleum ether / spirit	C/3	A	A	B/4	B/4
Phenol	B/2/3/4	A	A	A	A
Phenylhydrazine	B/1/4	A	A	B/1/4	B/4
Phosphoric acid 85%	B/3/4	A	A	A	A
Potassium chloride	C/1/4	B/1	A	C/1	A
Potassium dichromate	B/1/2	A	A	C/1	B/1
Potassium hydroxide	B/1/2	B/1	B/1	C/1	A
Potassium iodide	B/1/4	A	A	C/1	A
Potassium permanganate	C/1/2/4	A	A	C/1	B/1
Propionic acid (Propanoic acid)	B/4	A	A	A	A
Propylene glycol (Propane-1,2-diol)	A	A	A	A	A
Picric acid (Trinitrophenol)	B/2/4	A	A	B/4	B/4
Pyridine	C/2/4	B/4	B/4	B/4	B/4
Scintilation fluid	---	A	A	A	A
Silver nitrate	C/1	A	B/1	C/1	A
Sodium acetate	C/1/2	A	A	C/1	A
Sodium chloride (Kitchen salt)	B/1/4	B/1	A	C/1	A
Sodium hydroxide 30%	C/1/2	B/1	B/1	C/1	A
Sodium hypochlorite (Javel water)	C/1/2/4	A	A	C/1	B/4
Sodium thiosulfate	B/1/4	A	A	C/1	A
Sulfonitric acid 100%	B/2/4	B/2/3	B/2/3	B/3/4	B/2/3/4
Sulfuric acid 98%	B/3/4	B/2/3	B/2	B/4	B/2/4
Tetrachloroethylene	B/2/4	B/4	B/4	B/4	B/4
Tetrahydrofuran (THF)	C/2/4	B/2/4	B/2/4	B/4	B/2/4
Toluene	C/2/3/4	A	B/4	B/4	B/4
Trichlorethylene	C/3	B/4	B/4	B/4	B/4
Trichloroacetic acid	C/1/2/4	A	A	B/1/4	B/4
Trichloroethane	C/3	B/4	B/4	B/4	B/4
Trichloromethane (Chloroform)	B/2/4	A	B/4	B/4	B/4
Triethylene glycol	B/2/4	A	A	A	A
Trifluoroacetic acid (TFA)	B/2/4	B/3	B/3	B/4	B/4
Xylene	C/2/3/4	A	B/4	B/4	B/2/4

Compatibility statement

A = Good resistance B = Acceptable with limitations C = Not recommended

Technical risks

1 = Possible crystallisation, valve or plunger blockage. Scratches on plunger coating if plunger/barrel dried and stick together.
2 = Swell of plunger coating, possible peeling. Acura® 865: chemical degradation of O-ring.
3 = Release of acid vapours (risk increases with concentration). Do not leave dispenser on bottle.
Acura® 865: limited dosing cycles, possible plunger blockage and/or corrosion.
4 = Damage, softening or discoloration of external parts through vapours. Do not leave dispenser on bottle.
Acura® 865: vapours may damage internal and external parts of upper assembly.
5 = Chemical degradation of glass parts (plunger/barrel).

Expanded chemical lists

Acura® 865

Calibrex™ 520/521
Acurex™ 501

Calibrex™ 525/530

Dosys™
laboratory syringes

From the basic unit to the corrosion-resistant model, the laboratory dedicated syringe line offers precision instruments you can trust. Intended for safe and reliable liquid distribution, the selection of pistol-grip and two-ring instruments comes in a wide volume range. One-year warranty.

SHOCK SAFE

AUTOCLAVE AT 121°C

ERGONOMIC COMFORT

The Dosys™ syringes

Product advantages

- Optimal hand balance and ergonomics
- Fast and reliable volume setting
- Excellent reproducibility
- Plunger tightness without O-ring
- High chemical resistance
- Fully autoclavable at 121°C / 250°F

162
163
164

Two-ring handle

172
173
174

Pistol-grip handle

Simple, natural movements ①②

Both pistol-grip and two-ring handles fit any hand in a comfortable way. Activation performed with limited effort for efficient work even during long dispensing series.

Syringe stand

Stand holds syringe in ready-to-fetch position. Easy-to-clean material. Autoclavable (Cat. No. 320.170).

Volume selection – Reliable reproducibility ③

Volume is set within seconds. It will not vary while activating the syringe, thanks to the safety-locking nut on the micrometric screw. Dose-by-dose reproducibility (CV) is excellent, as witnessed by performance figures.

Plunger tightness without O-ring ④

Smooth plunger travel and tightness achieved through high-precision stainless steel plunger and ground glass barrel. No O-ring to mess with or replace.

Glass protection ⑤

Interchangeable glass barrel is protected by a PVC sleeve (not autoclavable) to prevent breakage.

Few parts assembly – Low maintenance ⑥

The automatic syringes are made of only six main parts, easy to disassemble. Fast access to all elements allows rapid and efficient cleaning. Spares are available at reasonable cost.

Dosys™ laboratory syringes – Unlimited applications

Dose-by-dose distribution

Dispensing distribution

Sterile work

Filtration at your nozzle tip

Aspiration with reverse modus valve

Animal injection

Instrument descriptions and ordering information

Corrosion resistant

Dosys™ *basic* syringes 162 / 172

- Fill-by-fill (automatic) through needle or cannula
- Supplied without valve system
- Luer Lock nozzle

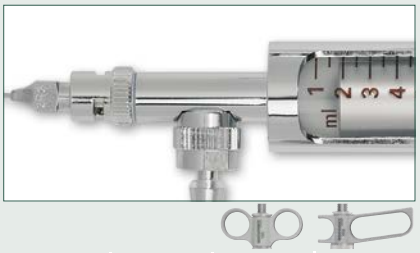
Package includes syringe, PVC protection sleeve and operating instructions.

Volume	Division	Dosys 162 Cat. No.	Dosys 172 Cat. No.
0.1 – 1 mL	0.05 mL	162.0501	172.0501
0.3 – 2 mL	0.1 mL	162.0502	172.0502
0.5 – 5 mL	0.5 mL	162.0505	172.0505
1 – 10 mL	1.0 mL		172.0510

Dosys™ *classic* syringes 163 / 173

- Self-refilling automatic
- Integrated valve system
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration and vent cannulas, set of spares for valve, operating instructions.



Volume	Division	Dosys 163 Cat. No.	Dosys 173 Cat. No.
0.025 – 0.3 mL	0.025 mL	163.05003	173.05003
0.1 – 0.5 mL	0.1 mL	163.05005	173.05005
0.1 – 1 mL	0.05 mL	163.0501	173.0501
0.3 – 2 mL	0.1 mL	163.0502	173.0502
0.5 – 5 mL	0.5 mL	163.0505	173.0505
1 – 10 mL	1 mL	163.0510	173.0510
5 – 20 mL	1 mL		173.0520

Dosys™ *premium* syringes 164 / 174

- Self-refilling automatic
- Detachable valve system
- Enhanced corrosion resistance
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration, vent and dosing cannulas, set of spares for valve, operating instructions.

Volume	Division	Dosys 164 Cat. No.	Dosys 174 Cat. No.
0.1 – 1 mL	0.05 mL	164.0501	174.0501
0.3 – 2 mL	0.1 mL	164.0502	174.0502
0.5 – 5 mL	0.5 mL	164.0505	174.0505
1 – 10 mL	1.0 mL	164.0510	174.0510

Performance all models

Volume	Imprecision (CV%)		
	Min. vol.	Mid. vol.	Max. vol.
0.025 – 0.3 mL	< 1.8%[1)]	< 1.2%	< 0.5%
0.1 – 0.5 mL	< 1.2%	< 0.9%	< 0.4%
0.1 – 1 mL	< 0.7%	< 0.6%	< 0.4%
0.3 – 2 mL	< 0.6%	< 0.5%	< 0.4%
0.5 – 5 mL	< 0.5%	< 0.4%	< 0.2%
1 – 10 mL	< 0.5%	< 0.4%	< 0.2%
5 – 20 mL	< 0.5%	< 0.4%	< 0.4%

Tests performed with bidest. water, using stainless steel cannula (1.2x50 mm), at constant working speed. [1)] Measured at 0.075 mL

Liquid path materials (for chemical resistance)

Parts	*Basic* / *classic* models	*Premium* models
Feed tubing	Silicone	Silicone
Barrel	Borosilicate glass	Borosilicate glass
Washer, barrel	FPM	FPM
Plunger	Stainless steel DIN 304	Stainless steel DIN 316L
Valve system	Ni-Cr Brass	Stainless steel DIN 316L
Washer, valve	PTFE	PTFE
Spring and balls, valve	Stainless steel, DIN 304	Stainless steel, DIN 304
Sinker, feed cannula	Ni-Cr Brass	Ni-Cr Brass

Accessories for self-refilling syringes

Alternative feed sources ①②

Optional vial holder conversion set and reagent reservoirs for additional liquid feeding possibilities.

Description	Packaging	Cat. No.
Vial holder conversion set for 163 and 173 models (except 20 mL), without vial	1 / pk	1.187.1C
PP bottle, 60 mL	1 / pk	1.187.060*
PP bottle, 125 mL	1 / pk	1.187.150*
PP bottle, 250 mL	1 / pk	1.187.250*

*Use with Rotlauf inlet valve (Cat. No. 187.613) only, to be ordered separately.

Enhanced tightness set ③

The special clear glass barrel / X-ring fitted plunger enhance tightness when demanded by application (ex. filtration, aspiration, etc.).

Description	Packaging	Cat. No.
Set includes one each plunger, X-ring,5 mL barrel and grease	1 / pk	1.170.205
Spare barrel for tightness set, 5 mL	6 / pk	0187.05T

ABF premium anti-corrosive lubricant for metal plunger ④

Description	Packaging	Cat. No.
Lubricant spray, 70 mL	1 / pk	1.170.705
Multipk: Lubricant spray, 70 mL	6 / pk	1.170.906
Multipk: Lubricant spray, 70 mL	12 / pk	1.170.912

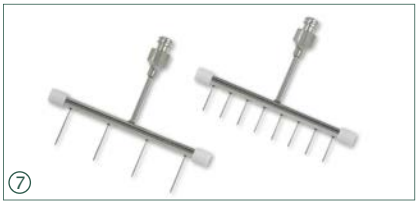
Aspiration valve ⑤⑥

Reverse modus valve set for liquid aspiration (ex. waste collection in separate container). Vented waste collector cap and enhanced tightness set recommended.

Description	Packaging	Cat. No.
Reverse modus aspiration valve unit for 164 / 174 models	1 / pk	1.170.952
Screw cap ø 45 mm, with tubing connection and filtered air outlet	1 / pk	1.170.945

Multiple dispensing manifolds ⑦

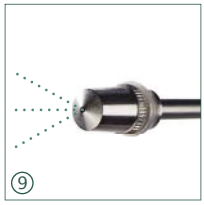
For convenient distribution in 24- and 96-well plates. Tight-fitting Luer and Luer Lock syringe nozzles. Stainless steel with PTFE stoppers, autoclavable.



Description	Packaging	Cat. No.
4-channel manifold, 20 mm spacing	1 / pk	1.170.054
8-channel manifold, 9 mm spacing	1 / pk	1.170.058

Injection needles ⑧

Beveled, high-quality needles, stainless steel, autoclavable. 12 / pack.



ø x L, mm	Cat. No.	ø x L, mm	Cat. No.
0.7 x 13	371.0713	1.4 x 20	371.1420
0.8 x 10	371.0810	1.4 x 35	371.1435
0.8 x 25	371.0825	1.5 x 150	371.15150
0.8 x 30	371.0830	1.6 x 20	371.1620
0.8 x 40	371.0840	1.6 x 25	371.1625
1.0 x 10	371.1010	1.6 x 30	371.1630
1.0 x 20	371.1020	1.6 x 100	371.16100
1.0 x 30	371.1030	1.8 x 10	371.1810
1.0 x 40	371.1040	1.8 x 20	371.1820
1.2 x 10	371.1210	1.8 x 30	371.1830
1.2 x 20	371.1220	2.0 x 30	371.2030
1.2 x 35	371.1235	2.0 x 40	371.2040
1.2 x 50	371.1250	2.0 x 50	371.2050

Additional sizes available

Cleaning brushes ⑩

Heavy-duty nylon brushes with tufted end and plastic handle for barrel cleaning.

Description	Packaging	Cat. No.
For 0.3, 0.5, 1 mL barrels	6 / pk	1.170.301
For 1, 2, 5 mL barrels	6 / pk	1.170.305
For 5, 10, 20 mL barrels	3 / pk	1.170.320
Set of 6 nylon brushes, 2 each	6 / pk	1.170.300

Dispensing needles & cannulas

Luer Lock, stainless steel, autoclavable.

Size (ø x L)	Packaging	Cat. No.
Lab cannulas, blunt end		
0.8 x 40 mm	12 / pk	370.0840
1.2 x 50 mm	1 / pk	370.1250
2.2 x 100 mm	1 / pk	370.22100
2.2 x 150 mm	1 / pk	370.22150
Superior quality needles, bevelled		
1.2 x 10 mm	1 / pk	371.1210UN
1.6 x 20 mm	1 / pk	371.1620UN
2.0 x 30 mm	1 / pk	371.2030UN

Cannula with sprayer nozzle ⑨

Luer Lock, stainless steel, autoclavable.

Size Ø x L, mm	Packaging	Cat. No.
3.0 x 180 mm	1 / pk	370.30180
3.0 x 500 mm	1 / pk	370.30500

Drenchers ⑪

For safe animal mouth- and nose-feeding. Stainless steel, autoclavable.

Size (ø x L)	Packaging	Cat. No.
Drenchers, straight		
0.9 x 25 mm	3 / pk	376.0925S
1.2 x 51 mm	3 / pk	376.1251S
1.6 x 102 mm	2 / pk	376.16102S
3.0 x 203 mm	2 / pk	376.30203S
Drenchers, bent		
0.9 x 25 mm	3 / pk	376.0925B
1.2 x 51 mm	3 / pk	376.1251B
1.6 x 102 mm	2 / pk	376.16102B
3.0 x 203 mm	2 / pk	376.30203B

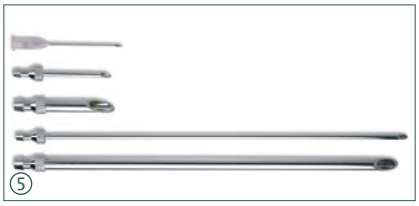
Spare parts for self-refilling syringes

①

②

③

④


⑤

Ground glass barrels ①

Description	Packaging	Cat. No.
Barrel, syringe 0.3 mL	6 / pk	0187.003
Barrel, syringe 0.5 mL	6 / pk	0187.005
Barrel, syringe 1 mL	6 / pk	0187.01
Barrel, syringe 2 mL	6 / pk	0187.02
Barrel, syringe 5 mL	6 / pk	0187.05
Barrel, syringe 10 mL	6 / pk	0187.10
Barrel, syringe 20 mL	3 / pk	0187.20

PVC protection sleeves ②

Description	Packaging	Cat. No.
Sleeve, 0.3, 0.5 mL barrels	6 / pk	1.170.4005
Sleeve, 1 mL barrels	6 / pk	1.170.401
Sleeve, 2 mL barrels	6 / pk	1.170.402
Sleeve, 5 mL barrels	6 / pk	1.170.405
Sleeve, 10 mL barrels	6 / pk	1.170.410
Sleeve, 20 mL barrels	3 / pk	1.170.420

Spare bags ③

Description	Packaging	Cat. No.
Kit for valve, syringe 0.3 mL	1 bag	1.187.72003
Kit for valve, syringe 0.5 mL	1 bag	1.187.72005
Kit for valve, syringe 1 mL	1 bag	1.187.7201
Kit for valve, syringe 2 mL	1 bag	1.187.7202
Kit for valve, syringe 5 mL	1 bag	1.187.7205
Kit for valve, syringe 10 mL	1 bag	1.187.7210
Kit for valve, syringe 20 mL	1 bag	1.187.7220

Includes springs, balls, washer for valve and barrel washer.

Feed tubing (medical quality silicone) ④

Description	Packaging	Cat. No.
Tube, syringes 0.3 to 10 mL, cut	1 m / pk	187.705
Tube, syringes 0.3 to 10 mL, cut	3x 1 m / pk	187.905
Tube, syringes 0.3 to 10 mL, uncut	10 m / pk	187.910
Tube, syringes 0.3 to 10 mL, cut	by the meter	187.710
Tube, syringe 20 mL, cut	1 m / pk	187.707

Vent and feed cannulas ⑤

Description	Packaging	Cat. No.
Short vent cannulas		
Plastic / SS, syringes 0.3 to 5mL	1 / pk	187.933
Chrome plated, syringe 10 mL	1 / pk	187.591
Chrome plated, syringe 20 mL	1 / pk	187.593
Long feed cannulas		
Chrome plated, syringes 0.3 to10 mL	1 / pk	187.592
Chrome plated, syringe 20 mL	1 / pk	187.594

Other spare parts

Refer to separate list for exhaustive selection.

The Dosys™ *all-glass* syringes

The reusable borosilicate glass syringes offer superior chemical and heat-shock resistance. A precious, low-cost alternative to disposable plastic syringes, complementing the self-refilling models in many applications.

Product advantages

- Precision-machined plunger and barrel
- Excellent fitting and liquid tightness (not gas tight)
- Permanent, high-visibility graduations
- Sterilisation up to 160°C / 320°F

155

1 to 250 mL

STERILISE UP TO 160°C

Ordering information

Volume	Division	Packaging	Glass Luer nozzle Cat. No.	Metal Luer Lock nozzle Cat. No.
0.1 - 1 mL	0.05 mL	3 / pk	155.0301	155.0501
0.5 - 2 mL	0.1 mL	3 / pk		155.0502
0.2 - 5 mL	0.2 mL	3 / pk	155.0305	155.0505
1 - 10 mL	0.2 mL	3 / pk	155.0310	155.0510
1 - 20 mL	1 mL	2 / pk	155.0320	155.0520
1 - 30 mL	2 mL	2 / pk	155.0330	155.0530
1 - 50 mL	2 mL	1 / pk		155.0550
10 - 100 mL	10 mL	1 / pk	155.03100	155.05100
10 - 150 mL	10 mL	1 / pk		155.05150
10 - 200 mL	10 mL	1 / pk		155.05200
10 - 250 mL	10 mL	1 / pk		155.05250

Profiller™ *electro*

electronic pipette controller

Pipette controller fitting any hand in a very comfortable way. Shape is ideal for working with glass or plastic pipettes within laminar flow or microbiological safety cabinet. A powerful, yet quiet motor and a switch to set both aspiration and dispensing speeds enable maximal working efficiency even with large pipetting volumes. One-year warranty.

The Profiller™ *electro* 446

446

Pipettes
up to 100 mL

CE

Product advantages

- Powerful pump – fills 25 mL in 3 seconds
- Simple, fast operation
- Comfortable finger triggers
- Low battery light
- NiMH battery rechargeable during use
- Interchangeable protection membrane filter
- Stand suitable for bench or wall mounting

Finger triggers ①

Suction and dispensing are controlled through two ergonomically positioned finger triggers. They provide a comfortable grip with minimum activation effort.

Variable speed ②

Switch enables selection of fast or slow aspiration and dispensing (with blow-out). Fast speed filling up to 25 mL in under 3 seconds. Gravity dispense mode is designed for use with 'To Deliver' (TD) pipettes.

Battery charge ③

Instrument plug enables charging battery either in storage position or during use.

Convenient stand

Suitable for bench or wall mounting, stand houses Profiller™ electro with or without a pipette in place.

Ordering information – Instrument

Supplied with power supply, two spare hydrophobic filters (0.45 µm and 0.2 µm), bench / wall stand and instruction manual.

Profiller™ electro 446	Packaging	Cat. No.
With Europe style plug	1 / pk	446.100E
With UK style plug	1 / pk	446.100G
With USA/Japan style plug	1 / pk	446.100U

Ordering information – Accessories

Description	Packaging	Cat. No.
Spare stand	1 / pk	320.446
Spare 1.2V NiMH battery	2 / pk	900.916
Power supply, Europe style plug	1 / pk	900.946E
Power supply, UK style plug	1 / pk	900.946G
Power supply, USA-Japan style plug	1 / pk	900.946U

Descrizione	Imballo	N. cat.
Filtro a membrana, 0.45 µm	5 / conf.	322.435
Filtro a membrana, 0.2 µm	5 / conf.	322.400
Supporto per pipetta in silicone	1 / conf.	1.435.01
Cono anteriore - bianco	3 / conf.	1.435.02
Coni anteriori alternativi - rosa, viola, verde (1 ciascuno)	3 / conf.	1.435.03

manual pipette controller

Robust and easy to use, this model offers ergonomic shape and light weight. It provides smooth control in both, aspirating and dispensing, using glass or plastic pipettes of volume up to 100 mL. One-year warranty.

435

Pipettes
up to 100 mL

Profiller™ *manual* 435

Product advantages

- Large capacity bulb
- Soft action lever button
- Efficient blow-out system
- PTFE protection membrane filter
- Maintenance free
- Alternative colour-coded nose cones

Squeezable bulb ①

Simply squeeze large capacity silicone bulb for efficient aspiration. If additional aspiration is needed, it can be squeezed even during pipetting.

Precise control ②

Thumb lever button for left and right-handed users to easily control both aspiration and dispensing speeds.

Liquid blow-out ③

Press large button to expel residual liquid when using blow-out type pipettes.

Protection filter ④

Interchangeable hydrophobic membrane filter guarantees effective protection against airborne contamination during aspiration and dispensing.

Colour coding cones ⑤

Nose cone can be changed for individual, laboratory or department identification. Choose among regular white or a bunch of three colours.

Pipette holder

Conical shape of silicone pipette holder tightly fits graduated glass or plastic pipettes. Autoclavable.

Ordering information Profiller™ 435

Description	Packaging	Cat. No.
Profiller™ *manual* 435, egg style grey bulb	1 / pk	435.100

The Profillette™ 406

Product advantages

- One-hand operation
- Easy filling and dispensing
- Air inlet valve for fast distribution
- Colour coding per size
- Maintenance free

406

2 mL
10 mL
25 mL

Ordering information Profillette™ 406

Volumes	Colours	Packaging	Cat. No.
2 mL	blue	1 / pk	406.002
10 mL	green	1 / pk	406.010
25 mL	red	1 / pk	406.025
2 / 10 / 25 mL	assorted	3 / pack	406.300

Ordering information Accessories

Description	Packaging	Cat. No.
Profillette™ 406		
Spare silicone pipette holder	1 / pk	1.406.01
Replacement nose screw	1 / pk	1.406.02
Profiller™ 435		
Membrane filter, 0.45µm	5 / pk	322.435
Membrane filter, 0.2µm	5 / pk	322.400
Silicone pipette holder	1 / pk	1.435.01
Nose cone - white	3 / pk	1.435.02
Alternative nose cones - pink, violet, green (1 each)	3 / pk	1.435.03

Qualitips®

pipette tips

A perfect match between micropipettes and tips guarantees trouble-free pipetting and reliable results. The Socorex Qualitips® are designed to fulfil above preconditions. The line is exclusively made from high grade, virgin, metal-free polypropylene.
Precision injection moulding care for air-tight fit.
Stringent quality procedures ensure lot by lot consistency.
Various shapes in a range from 10 µL to 10 mL.

The Qualitips® pipette tips from 10 µL to 10 mL

Product advantages

- Wide selection, superior quality
- Lot-by-lot consistency
- Bulk or rack availability
- Compatibility with various pipette brands
- High-density filter prevents aerosol contamination
- DNAse and RNAse-free filter tips
- Pyrogen-free sterilized filter tips

Ask for free samples

Ordering information - pipette tip selection

Qualitips 10 µL

Qualitips 20 µL

Qualitips 100 µL

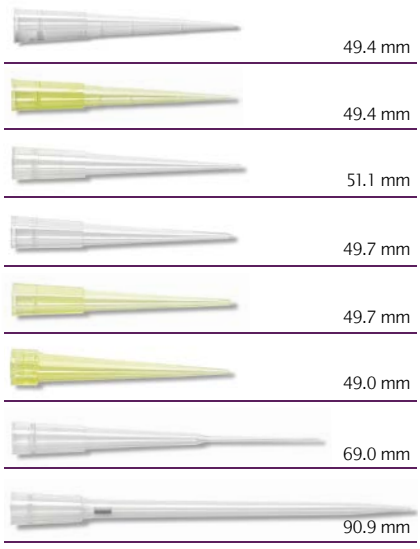
Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
BT, EP, GL	10 µL	Natural	Ultra-micro	No	No	Bag	1000	309.0010B
BT, EP, GL	10 µL	Natural	Ultra-micro	No	No	Rack	10 x 96	309.0010R
BR, BT, EP, TF, GL	10 µL	Natural	Ultra-micro	Yes	Yes	Rack	10 x 96	309.0010FR
BR, BT, EP	10 µL	Natural	Micro	No	No	Bag	1000	302.0020B
BR, BT, EP	10 µL	Natural	Micro	No	No	Rack	10 x 96	302.0020R
BR, EP, TF	10 µL	Natural	Micro	Yes	Yes	Rack	10 x 100	302.0010FR
BR, EP, TF	10 µL	Natural	Micro	Yes	No	Bag	1000	302.0010AFB
BR, EP, TF	10 µL	Natural	Gel loading	No	No	Rack	4 x 204	302.0010GR

Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
BR, BT, EP, TF, GL	20 µL	Natural	Regular	Yes	Yes	Bag, single wrapped	5 x 100	308.0020FS
BR, BT, EP, TF, GL	20 µL	Natural	Regular	Yes	Yes	Rack	10 x 96	308.0020FR
BR, BT, EP, TF, GL	20 µL	Natural	Gel loading	Yes	Yes	Rack	4 x 204	308.0020GFR

Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
BR, BT, EP, TF, GL	100 µL	Natural	Regular	Yes	Yes	Rack	10 x 96	308.0100FR
BR, BT, EP, TF, GL	100 µL	Natural	Gel loading	Yes	Yes	Rack	4 x 204	308.0100GFR

pipette tips

Qualitips 200 µL

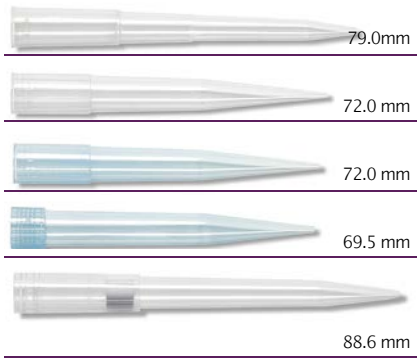


Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
BR, BT, EP, TF, GL	200 µL	Natural	Graduated	No	No	Bag	2 x 500	307.0200B
BR, BT, EP, TF, GL	200 µL	Yellow	Graduated	No	No	Bag	2 x 500	327.0200B
BR, BT, EP, TF, GL	200 µL	Yellow	Graduated	No	No	Rack[1)]	10 x 96	327.0200R
BR, BT, EP, TF, GL	200 µL	Natural	Regular	No	No	Bag	1000	308.0200B
BR, BT, EP, TF, GL	200 µL	Natural	Regular	No	No	Rack	10 x 96	308.0200R
BR, BT, EP, TF, GL	200 µL	Natural	Regular	No	No	Bag	2 x 500	309.0200B
BR, BT, EP, TF, GL	200 µL	Natural	Regular	No	No	Rack	10 x 96	309.0200R
BR, BT, EP, TF, GL	200 µL	Yellow	Regular	No	No	Bag	2 x 500	329.0200B
BR, BT, EP, TF, GL	200 µL	Yellow	Regular	No	No	Rack	10 x 96	329.0200R
BR, EP	200 µL	Yellow	Regular	No	No	Bag	2 x 500	328.0200B
BR, EP	200 µL	Yellow	Regular	No	No	Rack	10 x 96	328.0200R
BR, BT, EP, TF, GL	200 µL	Natural	Gel loading	No	No	Rack	4 x 204	308.0200GR
BR, BT, EP, TF, GL	200 µL	Natural	Extended	Yes	Yes	Bag, single wrapped	5 x 100	308.0200LFS
BR, BT, EP, TF, GL	200 µL	Natural	Extended	Yes	Yes	Rack	8 x 204	308.0200LFR

Qualitips 300 / 350 µL

Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
BR, BT, EP, GL	350 µL	Natural	Regular	No	No	Bag	1000	308.0350B
BR, BT, EP, GL	350 µL	Natural	Regular	No	No	Rack	10 x 96	308.0350R
BR, BT, EP, GL	300 µL	Natural	Regular	Yes	Yes	Rack	10 x 96	308.0300FR
BR, BT, EP, GL	300 µL	Natural	Regular	Yes	No	Bag	1000	308.0300AFB

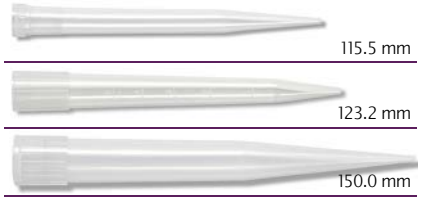
Qualitips 1000 µL



Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
BR, BT, EP, TF, GL	1000 µL	Natural	Graduated	No	No	Bag	4 x 250	307.1000B
BR, BT, EP, TF, GL	1000 µL	Natural	Graduated	No	No	Rack[1)]	10 x 60	307.1000R
BR, BT, EP, TF, GL	1000 µL	Natural	Regular	No	No	Bag	4 x 250	309.1000B
BR, BT, EP, TF, GL	1000 µL	Natural	Regular	No	No	Rack	8 x 60	309.1000R
BR, BT, EP, TF, GL	1000 µL	Blue	Regular	No	No	Bag	4 x 250	319.1000B
BR, BT, EP, TF, GL	1000 µL	Blue	Regular	No	No	Rack	8 x 60	319.1000R
BR, BT, EP, TF	1000 µL	Blue	Regular	No	No	Bag	4 x 250	318.1000B
BR, BT, EP, TF	1000 µL	Blue	Regular	No	No	Rack	8 x 60	318.1000R
BR, BT, EP, TF	1000 µL	Natural	Regular	Yes	Yes	Bag, single wrapped	5x 100	309.1000FS
BR, BT, EP, TF	1000 µL	Natural	Regular	Yes	Yes	Rack	10 x 100	309.1000FR
BR, BT, EP, TF, GL	1000 µL	Natural	Regular	Yes	No	Bag	1000	309.1000AFB

[1)] hinged lid

Qualitips 2 / 5 / 10 mL



Description						Packaging		Cat. No.
Tip also fits	Capacity	Colour	Style	Filter	Sterilized	Unit	Quantity	
E	2 mL	Natural	Regular	No	No	Bag	2 x 250	312.02
G	5 mL	Natural	Graduated	No	No	Bag	2 x 250	312.05B
G	5 mL	Natural	Graduated	No	No	Rack	2 x 50	312.05R
F	10 mL	Natural	Regular	No	No	Bag	3 x 100	312.10

Tip fitting: ***BR*** = Brand®, ***BT*** = Biohit®, ***EP*** = Eppendorf®, ***FP*** = Finnpipette®, ***GL*** = Gilson®. Brand names belong to their respective owners.

Empty autoclaving boxes

Description	Fitting	Lid type	Packaging	Cat. No.
Empty box	10 µL tips #309.0010B	hinged	10 / pk	309.0010ER
Empty box	10 µL tips #302.0020B	cover	10 / pk	302.0020ER
Empty box	200 µL tips #328.0200B	cover	10 / pk	328.0200ER
Empty box	350 µL tips #308.0350B	cover	10 / pk	308.0350ER
Empty box	1000 µL tips #319.1000B	cover	8 / pk	319.1000ER
Empty box	10 mL tips #312.10	hinged	4 / pk	312.10ER

Qualitips® compatibility chart

Chart below indicates optimal combination of Qualitips® and Socorex® pipette. Detailed compatibility with other pipette brands available on request. Please contact your local distributor or Socorex.

	Acura® *manual* and Acura® *electro*																			Calibra® *digital*												
	815					825/826/925/926									835/935/936			855/955/956				822							832		852		
	up to 10 µL	10 Y / 15 / 20 µL	25 to 100 µL	120 to 200 µL	250 to 1000 µL	0.1 – 2 µL	0.5 – 10 µL	1 – 10 µL (Y)	2 – 20 µL	5 – 50 µL	10 – 100 µL	20 – 200 µL	100 – 1000 µL	0.2 – 2 mL	0.5 – 5 mL	1 – 10 mL	0.5 – 10 µL	5 – 50 µL	20 – 200 µL	40 – 350 µL	0.2 – 2 µL	1 – 10 µL	1 – 10 µL (Y)	2 – 20 µL	10 – 100 µL	20 – 200 µL	100 – 1000 µL	0.2 – 2 mL	1 – 10 mL	1 – 10 µL	10 – 100 µL	20 – 200 µL
Microtips, 10 µL																																
309.0010B + R	x					x	x										x				x[2]	x[2]								x		
309.0010FR	x					x	x										x				x[2]	x[2]								x		
302.0020B + R	x					x	x														x	x										
302.0010FR + AFB	x[3]						x														x	x										
302.0010GR	x[3]						x[3]														x	x										
Microtips, 20 µL																																
308.0020FS + FR		x						x	x	x[1]	x[1]							x[1]						x	x[1]	x[1]				x[1]		
308.0020GFR		x						x	x	x[1]	x[1]														x[1]							
Microtips, 100 µL																																
308.0100FR			x							x	x							x							x	x[1]				x	x[1]
308.0100GFR			x							x	x	x[1]														x[1]						
Microtips, 200 µL																																
307.0200B		x	x	x				x	x	x	x	x						x	x				x	x	x							
327.0200B + R		x	x	x				x	x	x	x	x						x	x				x	x	x							
308.0200B + R		x	x					x	x	x	x							x	x				x	x	x	x					x	x
309.0200B + R		x	x	x				x	x	x	x	x						x	x				x	x	x	x					x	x
329.0200B + R		x	x	x				x	x	x	x	x						x	x				x	x	x	x					x	x
328.0200B + R		x						x	x														x	x	x	x					x	x
308.0200GR		x	x					x	x	x	x												x	x	x	x						
308.0200LFS + LFR				x								x														x						
Microtips, 300 / 350 µL																																
308.0350B + R				x						x	x	x							x	x				x	x	x	x					x	x
308.0300FR + AFB				x								x							x	x						x						x
Microtips, 1000 µL																																
307.1000B + R					x								x														x					
309.1000B + R					x								x														x					
319.1000B + R					x								x														x					
318.1000B + R					x								x														x					
309.1000FR + FS + AFB					x								x														x					
Macrotips																																
312.02 (2 mL)														x														x				
312.05B + R (5 mL)															x																	
312.10 (10 mL)																x													x			

[1] Only to max. volume of the tip [2] As of serial number 09091001 [3] > 2 µL only

Glass Pasteur pipette ①②

Standard 2 mL models fitting Acura® and Calibra® 2 and 5 mL macropipettes with their respective adapters. Useful alternative to macrotips, for instance when handling PP affecting reagents. Model and size selection fit most lab requirements.

Pasteur pipette adapters ③

Dedicated PVDF adapters with two internal O-rings tightly fitting glass Pasteur pipette (ext Ø 6.5 – 7.2 mm), without excluding the use of regular PP tips.

Ordering information - Pasteur pipettes

Material	Volume	Dimension (lxØ mm)	Packaging	Cat. No.
Glass	2 mL	150 x 7	250/ pk	313.02.150
		230 x 7	250/ pk	313.02.230
Glass with cotton plug	2 mL	150 x 7	250/ pk	313.02.150C
		230 x 7	250/ pk	313.02.230C

Pasteur adapter

Fits macropipette	Packaging	Cat. No.
Acura® *manual* 835, 2 mL Calibra® *digital* 832, 2 mL	1/ pk	1.835.631
Acura® *manual* 835, 5 mL Acura® *electro* 936, 5 mL	1/ pk	1.835.633

Straw tips ④

Fitting the Acura® 810 dilution pipette, the long and thin shape straw tips allow pick-up of particle containing liquids in Stomacher® bags and deep, narrow reservoirs without blocking. Supplied sterilized in re-sealable bag.

Nozzle filters for pipettes ⑤⑥

Protection against liquid overflow or aerosol contamination. Filters are interchangeable, non-sterile, non autoclavable.

Ordering information - Straw tips and nozzle filters

Description	Fits	Material	Size (lxØ mm)	Packaging	Cat. No.
Straw tips, 1.1 mL	Acura® *manual* 810	PP, sterilized	190 x 4	40x 25/ pk	313.1119.40
Nozzle filter	Acura® *manual* 810	PE	6.3 x 2.5	100/ pack	322.810
Nozzle filter	Calibra® *digital* 832, 2 mL	Cellulose	22 x 7	250/ bag	322.02
Nozzle filter	Acura® *manual* 835, 2 and 5 mL Acura® *electro* 935, 5 mL	PP fibre	20 x 7.5	250/ bag	322.05
Nozzle filter	Calibra® *digital* 832, 10 mL Acura® *electro* 935, 10 mL	PP fibre	30 x 10.5	100/ bag	322.10

①

②

③

All-purpose reagent reservoirs ①②

Particularly well suited for single and multichannel pipetting. V-shape bottom enables aspiration until last reagent drops. Made of PP, autoclavable, re-usable.

Multichannel reagent reservoirs ③

8 and 12 channel reservoirs provide ideal solutions for many applications. Sterilized PS material, single wrapped.

Ordering information - Reagent reservoirs

Description	Dimensions	Volume	Colour	Style	Lid	Materials	Sterilized	Packaging	Cat. No.
Reservoir	58x132x25 mm	70 mL	Natural	V-shaped	No	PP	No	20/ pack	330.01
Reservoir	83x121x34 mm	125 mL	Natural	V-shaped	Yes, hinged	PP	No	20/ pack	330.01L
Reservoir	83x126x13 mm	48 mL	White	8-channel	No	PS	Yes	10x 1/ pack	330.08.9
Reservoir	83x126x13 mm	48 mL	White	12-channel	No	PS	Yes	10x 1/ pack	330.12.9

work stations

Properly storing micropipettes prevents damages and extends their life span. Socorex® offers a choice of stands adapted to any laboratory configuration.

332

Shelf pipette holder 332

- 2-position
- Fitting micro, macro and multichannel pipettes

340

Static work station 340

- 3-position
- Fitting micro, macro and/or multichannel Socorex pipettes
- Easy reach of each instrument

①

②

③

④

Holder for two instruments ①②

The attractive design accommodates all Calibra® and Acura® instruments, including microdispenser pipettes Acura® 865. A self-adhesive strip supplied ensures lasting attachment on any clean surface. Made of polycarbonate material.

Ordering information

Colour	Packaging	Cat. No.
Shelf pipette holder 332		
Transparent blue	1 / pk	320.332
Transparent blue	4 / pk	320.332.4
3 pipette work station 340		
Light grey	1 / pk	320.340

Extended compatibility ③④

Work station 340 also accommodates the dilution pipette Acura® 810 and the microdispenser pipettes Acura® 865. Heavy bottom plate and anti-slip pads guarantee high stability. Made of polyamide material.

The two universal micropipette stands fit all brands, ensuring their proper storage at any time. Anti-slip pads guarantee bench stability. Easy to clean.

336

Twister™ *universal* 336

- 6-position
- 360° soft rotation
- Instruments easy to fetch
- Concept fits pipettes of most brands
- Interchangeable discs
- Seven translucent colours

In-line™ *universal* 337

337

- 7-position
- Holds single channel pipettes of most brands
- Space saving pipette stand
- Sturdy polyamide material
- Five attractive pastel colours

Universal storage solution ①

No more micropipettes laying on the bench thanks to universal stands. They accommodate Socorex® and other brand micropipettes. Simple disassembling and cleaning.

Smooth rotation ②

Stand includes mechanism enabling soft rotation with the fingertip. For quick selection and picking of the desired micropipette.

Ordering information

Colour	Packaging	Cat. No.
Twister™ *universal* 336		
Rubin red	1 / pk	320.336R
Topaz orange	1 / pk	320.336O
Citrine yellow	1 / pk	320.336Y
Emerald green	1 / pk	320.336G
Sapphire blue	1 / pk	320.336B
Quartz grey	1 / pk	320.336Q
Diamond white	1 / pk	320.336W
In-line *universal* 337		
Light grey	1 / pk	320.337G
Pastel rose	1 / pk	320.337R
Ice blue	1 / pk	320.337B
Mint green	1 / pk	320.337M
Vanilla yellow	1 / pk	320.337Y

In-line universality ③④

One fits all; the stand holds new and old generations of Socorex® and other brand micropipettes.

Socorex Service Center

service programme

Socorex instruments are built to last. In order to guarantee trouble free usage over time, a minimum maintenance and regular calibration are strongly recommended. From rapid check-up or basic repair to GLP requirements, the Socorex Service Center - in its ultra-modern facilities - provides fast and reliable service and calibration, based on a long term experience in manufacturing precision liquid handling instruments.

Advantages

- Know-how and high competence
- All brand service for pipettes and dispensers
- Broad programme
- Controls according to ISO 8655 and ISO 17025 standards
- SAS accredited QC laboratory

SWISS CALIBRATION SCS112

SAS Accredited Service Laboratory ISO/IEC 17025

Broad calibration programme

Whatever the maintenance level needed for micropipettes and dispensers, Socorex has the appropriate answer, including customised service plans when required.

Efficient handling

The lead time for instruments received at Socorex is three to five working day, or 48 hours using our “Express service”.

Service Center on the web

For more details about our service programme, check: www.socorex.com

Personalised technical support

Highly qualified personnel with a broad product knowledge is at disposal for all technical matters. The team also provides professional answers and solutions about handling, maintenance and control procedures.

SCS laboratory

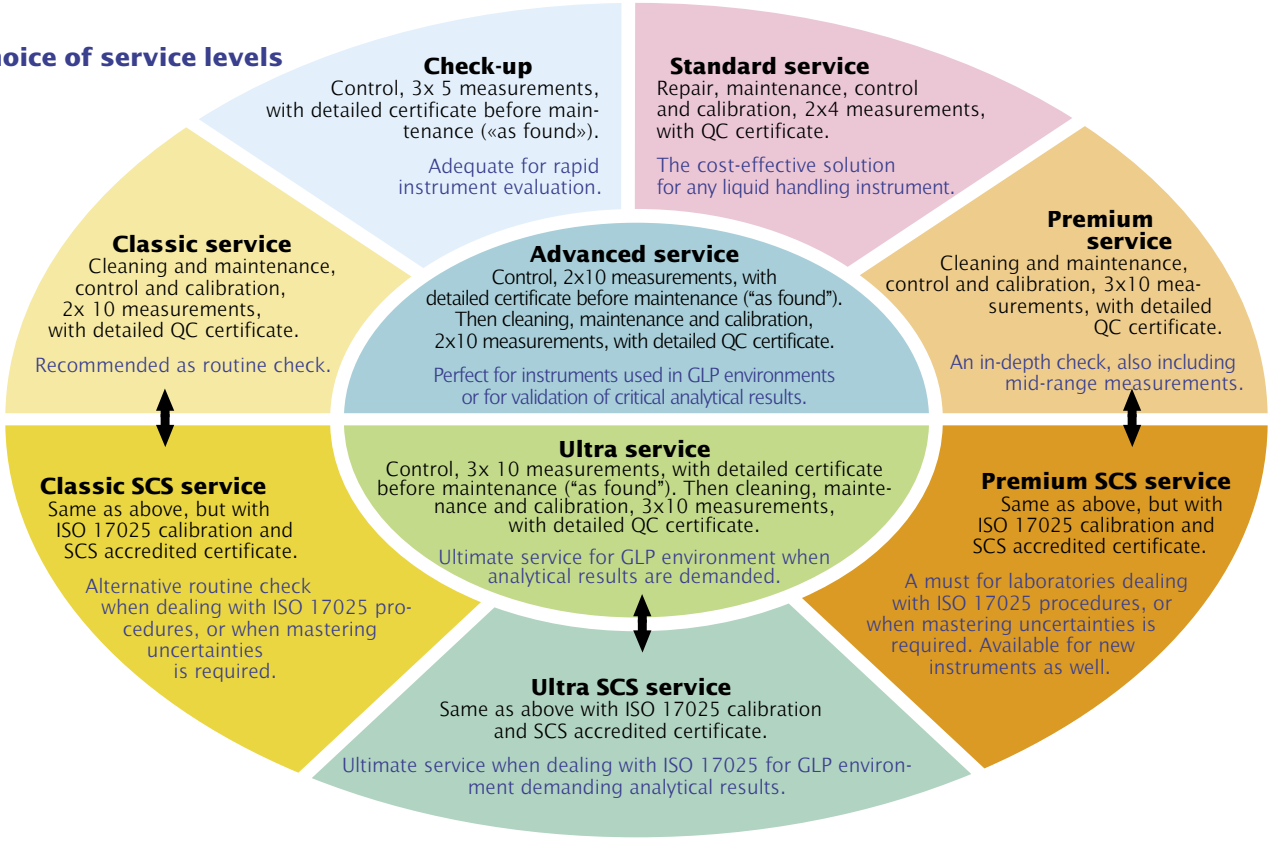
Accredited by SAS (Swiss Accreditation Services) of the Federal Office of Metrology, the Socorex QC laboratory performs calibrations in full compliance with ISO 17025 and delivers control certificates recognised internationally by ILAC members.

Examples of ILAC members from signatory countries

Country	Organisation
Australia	NATA
Austria	BMWA
Belgium	BELAC
Brazil	CGCRE / INMETRO
Canada	SCC-CLAS
China	CNAS
China HK	HKAS
Croatia	HAA
Czech Republic	CAI
Denmark	DANAK
Finland	FINAS
France	COFRAC
Germany	DAkkS
Hungary	NAT
India	NABL
Indonesia	KAN
Ireland	INAB
Italy	SIT
Japan	IA-JAPAN
Netherlands	RvA
Norway	NA
Poland	PCA
Portugal	IPAC
South Africa	SANAS
Slovenia	SA
Spain	ENAC
Sweden	SWEDAC
Switzerland	SAS
Turkey	TURKAK
United Kingdom	UKAS
USA	NVLAP

Complete list and details under www.ILAC.org

A choice of service levels



Service programme

Procedures \ Service levels		Maintenance and control per ISO 8655						Accredited calibration per ISO 17025			
		Check-up	Standard	Classic	Premium	Advanced	Ultra	Classic SCS	Premium SCS	Ultra SCS	New instruments
Instrument registration		•	•	•	•	•	•	•	•	•	Accredited certificate to be ordered with instrument
Gravimetric test before maintenance ("as found")	Min. vol.	5 x				10 x	10 x			10 x	
	Mid. vol.	5 x					10 x [3]			10 x [3]	
	Max. vol.	5 x				10 x	10 x			10 x	
Decontamination [1], disinfection, disassembling, cleaning			•	•	•	•	•	•	•	•	
Instrument check-up		•	•	•	•	•	•	•	•	•	
X-ring replacement as needed			•	•	•	•	•	•	•	•	
Other faulty parts replacement as needed			•	•	•	•	•	•	•	•	
Function and tightness check		•	•	•	•	•	•	•	•	•	
Gravimetric test after maintenance per ISO 8655	Min. vol.		4 x [2]	10 x	10 x	10 x	10 x				
	Mid. vol.		-	-	10 x [3]	-	10 x [3]				
	Max. vol.		4 x [2]	10 x	10 x	10 x	10 x				
Gravimetric test after maintenance per ISO 17025	Min. vol.							10 x	10 x	10 x	10 x
	Mid. vol.							-	10 x [3]	10 x [3]	10 x [3]
	Max. vol.							10 x	10 x	10 x	10 x
Final check and visa		•	•	•	•	•	•	•	•	•	•
QC certificate before maintenance ("as found")		•				•	•			• ISO 17025	
QC certificate after calibration ("as left")			•	•	•	•	•				
Accredited certificate per ISO 17025								•	•	•	•

[1] On request
[2] Five measurements, multichannel below 50µL
[3] When applicable

catalogue number index

Cat. No.	Page
0187.003	29
0187.005	29
0187.01	29
0187.02	29
0187.05	29
0187.05T	28
0187.10	29
0187.20	29
1.170.054	18/28
1.170.058	18/28
1.170.205	28
1.170.300	28
1.170.301	28
1.170.305	28
1.170.320	28
1.170.4005	29
1.170.401	29
1.170.402	29
1.170.405	29
1.170.410	29
1.170.420	29
1.170.705	28
1.170.906	28
1.170.912	28
1.170.945	28
1.170.952	28
1.187.060	28
1.187.150	28
1.187.1C	28
1.187.250	28
1.187.72003	29
1.187.72005	29
1.187.7201	29
1.187.7202	29
1.187.7205	29
1.187.7210	29
1.187.7220	29
1.406.01	31
1.406.02	31
1.411.7	17
1.435.01	30/31
1.435.02	30/31
1.435.03	30/31
1.524	23
1.525.120	23
1.525.121	23
1.525.150	23
1.525.151	23
1.525.525	24
1.525.526	24
1.525.546	23
1.525.581	23
1.525.625	23
1.525.650	23
1.525.GL32	24
1.525.GL38	24
1.525.GL40	24
1.825.025	8
1.825.100	8
1.825.700	9
1.825.710	9
1.825.711	9
1.825.712	9
1.825.713	9
1.825.714	9
1.825.715	9
1.825.716	9
1.825.717	9
1.825.718	9
1.825.719	9
1.825.720	9
1.825.721	9
1.825.722	9
1.825.723	9
1.831.707	6
1.835.631	6/35
1.835.633	6/35
1.861.21T	18
1.861.631	18
1.861.720	18
1.861.925	18
1.861.E32	18
155.0301	29
155.0305	29
155.0310	29
155.03100	29
155.0320	29
155.0330	29
155.0501	29
155.0502	29
155.0505	29
155.0510	29
155.05100	29
155.05150	29
155.0520	29
155.05200	29
155.05250	29
155.0530	29
155.0550	29
162.0501	27
162.0502	27
162.0505	27
163.05003	27
163.05005	27
163.0501	27
163.0502	27
163.0505	27
163.0510	27
164.0501	27
164.0502	27
164.0505	27
164.0510	27
172.0501	27
172.0502	27
172.0505	27
172.0510	27
173.05003	27
173.05005	27
173.0501	27
173.0502	27
173.0505	27
173.0510	27
173.0520	27
174.0501	27
174.0502	27
174.0505	27
174.0510	27
187.591	29
187.592	29
187.593	29
187.594	29
187.705	29
187.707	29
187.710	29
187.905	29
187.910	29
187.933	29
302.0010AFB	32
302.0010FR	32
302.0010GR	32
302.0020B	32
302.0020ER	33
302.0020R	32
307.0200B	33
307.1000B	33
307.1000R	33
308.0020FR	32
308.0020FS	32
308.0020GFR	32
308.0100FR	32
308.0100GFR	32
308.0200B	33
308.0200GR	33
308.0200LFR	33
308.0200LFS	33
308.0200R	33
308.0300AFB	33
308.0300FR	33
308.0350B	33
308.0350ER	33
308.0350R	33
309.0010B	32
309.0010ER	33
309.0010FR	32
309.0010R	32
309.0200B	33
309.0200R	33
309.1000AFB	33
309.1000B	33
309.1000FR	33
309.1000R	33
309.100FS	33
312.02	33
312.05B	33
312.05R	33
312.10	33
312.10ER	33
313.02.150	35
313.02.150C	35
313.02.230	35
313.02.230C	35
313.1119.40	13/35
314.0100	24
314.0250	24
314.0250C	24
314.0500	24
314.0500C	24
314.0500P	24
314.0500PE	24
314.1000	24
314.1000C	24
314.1000PE	24
314.2000C	24
314.2500	24
314.2500H	24
314.2500PE	24
315.0250	24
315.0500	24
315.1000	24
315.2500	24
316.010	17
316.010.9	17
316.050	17
316.050.9	17
316.500	17
316.500.9	17
318. 1000B	33
318. 1000R	33
319. 1000B	33
319. 1000R	33
319.1000ER	33
320.332	13/37
320.332.4	13/37
320.333	16
320.336B	38
320.336G	38
320.336O	38
320.336Q	38
320.336R	38
320.336W	38
320.336Y	38
320.337B	38
320.337G	38
320.337M	38
320.337R	38
320.337Y	38
320.340	13/18/37
320.411	17
320.446	30
320.903.48	6
320.913.48	6
320.BC050	23
320.BC100	23
320.SB050	23
320.SB100	23
322.02	35
322.05	6/35
322.10	6/35
322.400	30/31
322.435	30/31
322.810	13/35
327.0200B	33
327.0200R	33
328.0200B	33
328.0200ER	33
328.0200R	33
329.0200B	33
329.0200R	33
330.01	36
330.01L	36
330.08.9	36
330.12.9	36
341.005	16
341.025	16
341.050	16
341.100	16
341.200	16
342.005	16
342.025	16
342.050	16
342.100	16
342.200	16
370.0840	28
370.1250	28
370.22100	28
370.22150	28
370.30180	28
370.30500	28
371.0713	28
371.0810	28
371.0825	28
371.0830	28
371.0840	28
371.1010	28
371.1020	28
371.1030	28
371.1040	28
371.1210	28
371.1210UN	28
371.1220	28
371.1235	28
371.1250	28
371.1420	28
371.1435	28
371.15150	28
371.16100	28
371.1620	28
371.1620UN	28
371.1625	28
371.1630	28
371.1810	28
371.1820	28
371.1830	28
371.2030	28
371.2030UN	28
371.2040	28
371.2050	28
376.0925B	28
376.0925S	28
376.1251B	28
376.1251S	28
376.16102B	28
376.16102S	28
376.30203B	28
376.30203S	28
406.002	31
406.025	31
406.010	31
406.300	31
411.5000	17
435.100	31
446.100E	30
446.100G	30
446.100U	30
501.02025	19
501.021	19
501.022	19
501.0505	19
501.051	19
501.052	19
501.101	19
501.102	19
501.302	19
511.707	24
511.709	24
520.002	20
520.005	20
520.010	20
520.F02	20
520.F05	20
520.F10	20
521.621	24
521.622	24
521.623	24
521.705	24
521.706	24

Cat. No.	Page
525.025	22
525.025FC	22
525.050	22
525.050FC	22
525.100	22
525.100FC	22
525.350	24
525.706	24
530.025	22
530.025FC	22
530.050	22
530.050FC	22
530.100	22
530.100FC	22
800.0002	6
800.0002XS	6
800.0010	6
800.0010XS	6
800.0010Y	6
800.0010YXS	6
800.0020	6
800.0020XS	6
800.0050	6
800.0050XS	6
800.0100	6
800.0100XS	6
800.0200	6
800.0200XS	6
800.08.010	6
800.08.050	6
800.08.200	6
800.08.350	6
800.1000	6

Cat. No.	Page
800.10000	6
800.1000XS	6
800.12.010	6
800.12.050	6
800.12.200	6
800.12.350	6
800.2000	6
800.5000	6
810.1100	13
815.0001	11
815.0005	11
815.0010	11
815.0010Y	11
815.0015	11
815.0020	11
815.0025	11
815.0030	11
815.0032	11
815.0040	11
815.0050	11
815.0060	11
815.0070	11
815.0075	11
815.0080	11
815.0090	11
815.0100	11
815.0120	11
815.0150	11
815.0200	11
815.0250	11
815.0300	11
815.0400	11
815.0500	11

Cat. No.	Page
815.0600	11
815.0700	11
815.0750	11
815.0800	11
815.0900	11
815.1000	11
822.0002	14
822.0010	14
822.0010Y	14
822.0020	14
822.0100	14
822.0200	14
822.1000	14
825.0002	8
825.0010	8
825.0010Y	8
825.0020	8
825.0050	8
825.0100	8
825.0200	8
825.1000	8
825.TRIO.C	9
825.TRIO.J	9
825.TRIO.M	9
825.TRIO.O	9
825.TRIO.P	9
825.TRIO.S	9
825.TRIO.T	9
825.TRIO.V	9
826.0002	8
826.0010	8
826.0010Y	8
826.0020	8

Cat. No.	Page
826.0050	8
826.0100	8
826.0200	8
826.1000	8
826.TWX.E	9
826.TWX.G	9
826.TWX.H	9
826.TWX.K	9
826.TWX.N	9
826.TWX.Q	9
832.02	14
832.10	14
835.02	10
835.05	10
835.02PP	10
835.05PP	10
835.10	10
835.F02	11
835.F02.5	11
835.F05	11
835.F10	11
835.TRIO.Y	9
841.005	16
841.025	16
841.050	16
841.100	16
841.200	16
852.08.010	15
852.08.100	15
852.08.200	15
852.12.100	15
852.12.200	15
855.08.010	12

Cat. No.	Page
855.08.050	12
855.08.200	12
855.08.350	12
855.12.010	12
855.12.050	12
855.12.200	12
855.12.350	12
865.0050	18
865.0200	18
865.1000	18
900.901.48A	6
900.901.48E	6
900.901.48G	6
900.901.48U	6
900.916	30
900.920.48	6
900.922.48	6
900.946E	30
900.946G	30
900.946U	30
926.0002	6
926.0002E	6
926.0010	6
926.0010E	6
926.0010Y	6
926.0010YE	6
926.0020	6
926.0020E	6
926.0050	6
926.0050E	6
926.0100	6
926.0100E	6
926.0200	6

Cat. No.	Page
926.0200E	6
926.1000	6
926.1000E	6
936.02	6
936.02E	6
936.05	6
936.05E	6
936.10	6
936.10E	6
956.08.010	6
956.08.010E	6
956.08.050	6
956.08.050E	6
956.08.200	6
956.08.200E	6
956.08.350	6
956.08.350E	6
956.12.010	6
956.12.010E	6
956.12.050	6
956.12.050E	6
956.12.200	6
956.12.200E	6
956.12.350	6
956.12.350E	6
GLP + Ø	24
GLT + Ø	24
NSP + Ø	24
NST + Ø	24

Notes

Important information

Refer to package inserts for safety precautions, operating instructions and warranty terms.

User must pay special attention to possible hand fatigue during serial pipetting and its medical consequences such as repetitive strain injuries (RSI).

Mind risks involved in handling hazardous liquids with respect to personal, third party and environmental protection and safety.

Products and specifications are subject to change without prior notice.

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