

**Acura® manual**  
your expectations – our tradition

# digital reading micropipettes



The new Acura® *manual* pipette line was built with the same attention that made the brand famous over several instrument generations.

Introducing a slick design with easy volume reading, it also features a number of innovations making high-performance pipetting safe and agreeable.

#### The Acura® line features:

- Digital display window for permanent volume visibility
- Exceptional, user-friendly ergonomics
- Lightweight
- Ultra-soft, effortless activation
- Innovative tip ejection concept
- *Swift-set* user calibration system
- Entirely autoclavable at 121°C



#### The Acura® *manual* models

**815**  
fixed

**825**  
micro

**835**  
macro

**855**  
multi

 **SOCOREX**  
SWISS



## ► Most comfortable pipetting

Ergonomic shape, lightweight and ultra-soft plunger travel are key elements of the new Acura<sup>®</sup> family.



## ► Smart and reliable volume adjustment

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.

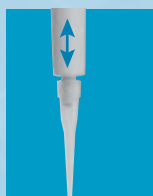
## ► Digital display always visible at a glance

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.



## ► Tip ejection – easier than ever

Most ergonomically positioned, 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<sup>™</sup> (4 mm span) – controlled by efficient click-stops – allows a wide selection of tips to tightly fit the nozzle.



## Engineered ergonomics and design

The challenge for our engineers in combining high-tech material with ergonomic design was far above average, and they succeeded excellently. Whether in research or routine applications, the result is an instrument designed and built with the users in mind. The precision pipettes offer much more than superior performance. Enjoy exceptional convenience, comfort, safety and sturdiness, enjoy your Acura<sup>®</sup>.

**815**  
fixed

**825**  
micro

1 µL to 10 mL

0.1 – 2 µL  
0.5 – 10 µL

1 – 10 µL  
2 – 20 µL  
5 – 50 µL

## Acura<sup>®</sup> 815

### Fixed volume – unlimited

The air displacement fixed volume pipettes come with all good features of the new instrument generation. These include slim ergonomic design, ultra-soft plunger stroke, autoclavability, and much more. Available in a wide selection of 1, 5 and 10 µL ultra-micro volumes, micro sizes from 20 to 1000 µL, and macro volumes models of 2 mL, 2.5 mL, 5 mL and 10 mL.

## Performance

| Volume µL | Inaccuracy (E %) | Imprecision (CV %) |
|-----------|------------------|--------------------|
| 1         | <+/- 2.0 %       | < 2.0 %            |
| 5         | <+/- 1.4 %       | < 1.0 %            |
| 10        | <+/- 0.7 %       | < 0.7 %            |
| 15        | <+/- 0.7 %       | < 0.5 %            |
| 20        | <+/- 0.7 %       | < 0.5 %            |
| 25        | <+/- 0.7 %       | < 0.6 %            |
| 30        | <+/- 0.7 %       | < 0.6 %            |
| 40        | <+/- 0.7 %       | < 0.5 %            |
| 50        | <+/- 0.7 %       | < 0.5 %            |
| 60        | <+/- 0.7 %       | < 0.6 %            |
| 70        | <+/- 0.7 %       | < 0.6 %            |
| 75        | <+/- 0.7 %       | < 0.5 %            |
| 80        | <+/- 0.7 %       | < 0.4 %            |
| 90        | <+/- 0.7 %       | < 0.3 %            |
| 100       | <+/- 0.7 %       | < 0.3 %            |
| 120       | <+/- 0.7 %       | < 0.4 %            |
| 150       | <+/- 0.7 %       | < 0.3 %            |
| 200       | <+/- 0.7 %       | < 0.4 %            |

| Volume µL | Inaccuracy (E %) | Imprecision (CV %) |
|-----------|------------------|--------------------|
| 250       | <+/- 0.7 %       | < 0.4 %            |
| 300       | <+/- 0.7 %       | < 0.4 %            |
| 400       | <+/- 0.7 %       | < 0.3 %            |
| 500       | <+/- 0.7 %       | < 0.3 %            |
| 600       | <+/- 0.7 %       | < 0.3 %            |
| 700       | <+/- 0.7 %       | < 0.2 %            |
| 750       | <+/- 0.7 %       | < 0.2 %            |
| 800       | <+/- 0.7 %       | < 0.2 %            |
| 900       | <+/- 0.7 %       | < 0.2 %            |
| 1000      | <+/- 0.6 %       | < 0.2 %            |

| Volume mL | Inaccuracy (E %) | Imprecision (CV %) |
|-----------|------------------|--------------------|
| 2         | <+/- 0.8 %       | < 0.5 %            |
| 2.5       | <+/- 0.8 %       | < 0.5 %            |
| 5         | <+/- 0.7 %       | < 0.4 %            |
| 10        | <+/- 0.5 %       | < 0.2 %            |



## Workstation 337

Stable, sturdy universal pipette workstation 337 for 7 micropipettes of most brands. Available in four attractive colours.

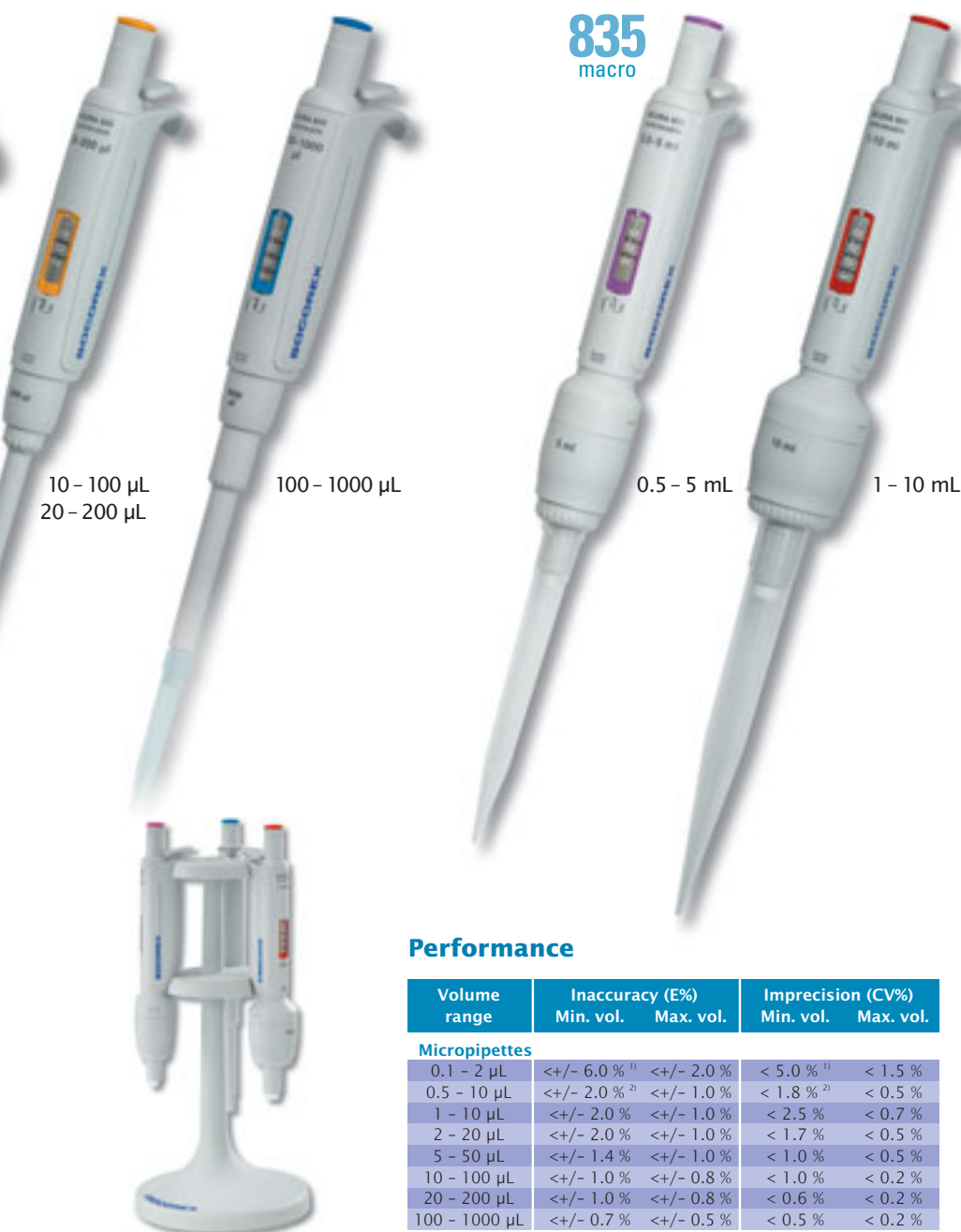


## Acura® 825/835

### Adjustable volume micro and macropipettes

Equipped with a precision digital display, the new line is continuously adjustable down to a very fine volume resolution. Single-handed volume setting is easy when the other hand is busy. Measuring unknown volumes by aspiration is also possible with a high degree of accuracy. Click-stops, together with freely rotating *smartie* plunger button cap ensure setting stability while pipetting.

A total of 8 micropipettes covering the range from 0.1 to 1000 µL and 2 macropipettes ranging 0.5 – 5 mL and 1 – 10 mL are available.



10 – 100 µL  
20 – 200 µL

100 – 1000 µL

**835**  
macro

0.5 – 5 mL

1 – 10 mL

### Performance

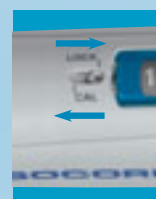
| Volume range         | Inaccuracy (E%)          |            | Imprecision (CV%)     |           |
|----------------------|--------------------------|------------|-----------------------|-----------|
|                      | Min. vol.                | Max. vol.  | Min. vol.             | Max. vol. |
| <b>Micropipettes</b> |                          |            |                       |           |
| 0.1 – 2 µL           | <+/- 6.0 % <sup>1)</sup> | <+/- 2.0 % | < 5.0 % <sup>1)</sup> | < 1.5 %   |
| 0.5 – 10 µL          | <+/- 2.0 % <sup>2)</sup> | <+/- 1.0 % | < 1.8 % <sup>2)</sup> | < 0.5 %   |
| 1 – 10 µL            | <+/- 2.0 %               | <+/- 1.0 % | < 2.5 %               | < 0.7 %   |
| 2 – 20 µL            | <+/- 2.0 %               | <+/- 1.0 % | < 1.7 %               | < 0.5 %   |
| 5 – 50 µL            | <+/- 1.4 %               | <+/- 1.0 % | < 1.0 %               | < 0.5 %   |
| 10 – 100 µL          | <+/- 1.0 %               | <+/- 0.8 % | < 1.0 %               | < 0.2 %   |
| 20 – 200 µL          | <+/- 1.0 %               | <+/- 0.8 % | < 0.6 %               | < 0.2 %   |
| 100 – 1000 µL        | <+/- 0.7 %               | <+/- 0.5 % | < 0.5 %               | < 0.2 %   |
| <b>Macropipettes</b> |                          |            |                       |           |
| 0.5 – 5 mL           | <+/- 1.0 %               | <+/- 0.7 % | < 0.6 %               | < 0.4 %   |
| 1 – 10 mL            | <+/- 0.8 %               | <+/- 0.5 % | < 0.4 %               | < 0.2 %   |

<sup>1)</sup> At 0.5 µL. Indicative data at 0.2 µL: E <+/- 12 %, CV < 8 %

<sup>2)</sup> At 1.0 µL. Indicative data at 0.5 µL: E <+/- 5 %, CV < 3 %

### Workstation 340

Convenient workstation for 3 Calibra® or Acura®, multi- or single-channel pipettes.



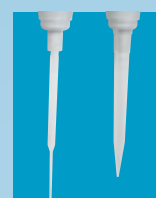
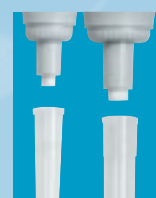
### ► Swift-set calibration

The *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.



### ► Colour coding at will

The Acura® pipettes have colour-coded display windows and *smarties* button caps suggesting a selection of suitable tips. Are other colour combination desirable for individual, lab or department identification? Then choose among 14 colours of *smarties*, or pick the *smartie* mix which contains all colours.



### ► Macropipettes – maxi advantages

The 835 models accommodate nozzle filters for added protection against liquid fill and contamination.

Optional adapter-nozzle allows fitting of Pasteur pipettes on 5 mL model, in addition to Polypropylene tips (order accessory separately).

### ► Minimum maintenance/sterilisation

Shock, heat, chemicals and UV light resistance is provided by carefully selected materials and good construction. Consequently, maintenance requirements are close to non-existent.



Thorough cleaning and sterilisation can be achieved by autoclaving the instrument fully assembled (121°C, 20 minutes).

## Qualitips® without filter

These superior pipette tips cover a range between 0.1 µL and 10 mL. All models autoclavable. Optimal tightness fitting on Socorex pipettes and broad compatibility with other brands.

| Description             | Volume  | Racks          | Cat. No.   | Bags         | Cat. No.  |                                                                                       |
|-------------------------|---------|----------------|------------|--------------|-----------|---------------------------------------------------------------------------------------|
| Natural ultra-microtip  | 10 µL   | 10 x 96/rack   | 309.0010R  | 1 x 1000/bag | 309.0010B |    |
| Natural gel loading tip | 10 µL   | 4 x 204/rack   | 302.0010GR |              |           |    |
| Natural microtip        | 10 µL   | 10 x 96/rack   | 302.0020R  | 1 x 1000/bag | 302.0020B |    |
| Natural universal tip   | 200 µL  | 10 x 96/rack   | 307.0200R  | 2 x 500/bag  | 307.0200B |    |
| Yellow universal tip    | 200 µL  | 10 x 96/rack   | 327.0200R  | 2 x 500/bag  | 327.0200B |    |
| Natural tip             | 200 µL  | 10 x 96/rack   | 308.0200R  | 1 x 1000/bag | 308.0200B |    |
| Natural gel loading tip | 200 µL  | 4 x 204/rack   | 308.0200GR |              |           |    |
| Natural tip             | 200 µL  | 10 x 96/rack   | 309.0200R  | 2 x 500/bag  | 309.0200B |    |
| Yellow tip              | 200 µL  | 10 x 96/rack   | 329.0200R  | 2 x 500/bag  | 329.0200B |    |
| Natural tip             | 350 µL  | 10 x 96/rack   | 308.0350R  | 1 x 1000/bag | 308.0350B |    |
| Natural universal tip   | 1000 µL | 10 x 60/rack   | 307.1000R  | 4 x 250/bag  | 307.1000B |    |
| Blue tip                | 1000 µL | 10 x 60/rack   | 318.1000R  | 4 x 250/bag  | 318.1000B |    |
| Natural tip             | 1000 µL | 10 x 60/rack   | 309.1000R  | 4 x 250/bag  | 309.1000B |   |
| Blue tip                | 1000 µL | 10 x 60/rack   | 319.1000R  | 4 x 250/bag  | 319.1000B |  |
| Natural macrotip        | 5 mL    | 2 x 50/rack    | 312.05R    | 2 x 250/bag  | 312.05B   |  |
| Natural macrotip        | 10mL    | 4 x rack alone | 312.10ER   | 3 x 100/bag  | 312.10    |   |

## Qualitips® with filter

Efficient protection against aerosols. Include high-density PE filter for complete uncontaminated sample retrieval. Certified DNase and RNase free. Sterile tips are guaranteed pyrogenfree.

| Description             | Volume  | Racks         | Cat. No.    | Bags         | Cat. No.    |                                                                                       |
|-------------------------|---------|---------------|-------------|--------------|-------------|---------------------------------------------------------------------------------------|
| Sterile ultra-microtip  | 10 µL   | 10 x 96/rack  | 309.0010FR  |              |             |  |
| Sterile microtip        | 10 µL   | 10 x 100/rack | 302.0010FR  |              |             |  |
| Autoclavable microtip   | 10 µL   | 10 x 100/rack | 302.0010AFR | 1 x 1000/bag | 302.0010AFB |  |
| Sterile tip             | 20 µL   | 10 x 96/rack  | 308.0020FR  | 5 x 100/bag  | 308.0020FS  |  |
| Autoclavable tip        | 20 µL   | 10 x 96/rack  | 308.0020AFR |              |             |  |
| Sterile gel loading tip | 20 µL   | 4 x 204/rack  | 308.0020GFR |              |             |  |
| Sterile tip             | 100 µL  | 10 x 96/rack  | 308.0100FR  |              |             |  |
| Autoclavable tip        | 100 µL  | 10 x 96/rack  | 308.0100AFR | 1x 1000/bag  | 308.0100AFB |  |
| Sterile gel loading tip | 100 µL  | 4 x 204/rack  | 308.0100GFR |              |             |  |
| Sterile extended tip    | 200 µL  | 4 x 204/rack  | 308.0200LFR | 5 x 100/bag  | 308.0200LFS |  |
| Sterile tip             | 300 µL  | 10 x 96/rack  | 308.0300FR  |              |             |  |
| Autoclavable tip        | 300 µL  | 10 x 96/rack  | 308.0300AFR | 1 x 1000/bag | 308.0300AFB |  |
| Sterile tip             | 1000 µL | 10 x 100/rack | 309.1000FR  | 5 x 100/bag  | 309.1000FS  |  |
| Autoclavable tip        | 1000 µL |               |             | 1 x 1000/bag | 309.1000AFB |  |

B = bag, F = filter, G = gel loading, L = long, R = rack, S = single wrapped, A = autoclavable



## Acura® 855

### Multichannel micropipettes

The comprehensive Acura® *manual* line offers 8- and 12-channel models with volumes ranging from 0.5 to 350 µL. These multichannel instruments extend pipetting possibilities in microplates and include the same Acura original features such as light weight and effortless activation. Autoclavable fully assembled by 121°C.



### Performance

| Volume range µL | Inaccuracy (E%)          |            | Imprecision (CV%) |           |
|-----------------|--------------------------|------------|-------------------|-----------|
|                 | Min. vol.                | Max. vol.  | Min. vol.         | Max. vol. |
| 0.5 - 10        | <+/- 3.5 % <sup>1)</sup> | <+/- 1.5 % | < 3.0 %           | < 1.0 %   |
| 5 - 50          | <+/- 1.0 %               | <+/- 0.8 % | < 1.0 %           | < 0.4 %   |
| 40 - 350        | <+/- 1.0 %               | <+/- 0.8 % | < 0.6 %           | < 0.3 %   |

<sup>1)</sup> At 1.0 µL. Indicative data at 0.5 µL: E <+/- 5 %, CV < 3 %

### Workstation 340

Convenient workstation for 3 Calibra® or Acura®, multi- or single-channel pipettes.



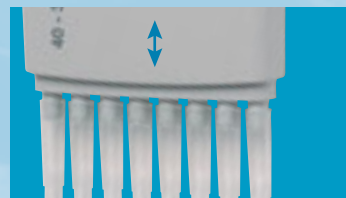
#### ► Optimal working position

In addition to the ergonomic design and perfect hand fitting of the pipette, the multichannel volumetric modules revolves to allow the selection of the best working position.



#### ► Adjustable tip ejector

Position of tip ejector can be adjusted in no time with a 4 mm span to perfectly match to tips used. Particular shape of ejector head adds to effortless, easy sequential tip ejection.



#### ► All purpose reservoirs

Well adapted for multichannel pipettes, the reagent reservoirs offer various shapes in different configurations at economical cost.

# digital reading micropipettes

## Ordering information – Instruments

### Acura<sup>®</sup> 815, fixed volume micropipettes

| Volume µL | Tip style | Cat. No. | Volume µL | Tip style | Cat. No. | Volume µL | Tip style | Cat. No. |
|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|
| 1         | 10 µL     | 815.0001 | 60        | 200 µL    | 815.0060 | 250       | 1000 µL   | 815.0250 |
| 5         | 10 µL     | 815.0005 | 70        | 200 µL    | 815.0070 | 300       | 1000 µL   | 815.0300 |
| 10        | 10 µL     | 815.0010 | 75        | 200 µL    | 815.0075 | 400       | 1000 µL   | 815.0400 |
| 15        | 200 µL    | 815.0015 | 80        | 200 µL    | 815.0080 | 500       | 1000 µL   | 815.0500 |
| 20        | 200 µL    | 815.0020 | 90        | 200 µL    | 815.0090 | 600       | 1000 µL   | 815.0600 |
| 25        | 200 µL    | 815.0025 | 100       | 200 µL    | 815.0100 | 700       | 1000 µL   | 815.0700 |
| 30        | 200 µL    | 815.0030 | 120       | 200 µL    | 815.0120 | 750       | 1000 µL   | 815.0750 |
| 40        | 200 µL    | 815.0040 | 150       | 200 µL    | 815.0150 | 800       | 1000 µL   | 815.0800 |
| 50        | 200 µL    | 815.0050 | 200       | 200 µL    | 815.0200 | 900       | 1000 µL   | 815.0900 |
|           |           |          |           |           |          | 1000      | 1000 µL   | 815.1000 |

### Acura<sup>®</sup> 825, adjustable volume micropipettes

| Volume µL  | Div. µL | Tip style | Cat. No.  |
|------------|---------|-----------|-----------|
| 0.1 – 2    | 0.002   | 10 µL     | 825.0002  |
| 0.5 – 10   | 0.01    | 10 µL     | 825.0010  |
| 1 – 10     | 0.01    | 200 µL    | 825.0010Y |
| 2 – 20     | 0.02    | 200 µL    | 825.0020  |
| 5 – 50     | 0.1     | 200 µL    | 825.0050  |
| 10 – 100   | 0.1     | 200 µL    | 825.0100  |
| 20 – 200   | 0.2     | 200 µL    | 825.0200  |
| 100 – 1000 | 1       | 1000 µL   | 825.1000  |

### Acura<sup>®</sup> 835F, fixed volume macropipettes

| Volume mL | Tip style | Cat. No.  |
|-----------|-----------|-----------|
| 2         | 5 mL      | 835.F02   |
| 2.5       | 5 mL      | 835.F02.5 |
| 5         | 5 mL      | 835.F05   |
| 10        | 10 mL     | 835.F10   |

### Acura<sup>®</sup> 835, adjustable volume macropipettes

| Volume mL | Div. mL | Tip style | Cat. No. |
|-----------|---------|-----------|----------|
| 0.5 – 5   | 0.01    | 5 mL      | 835.05   |
| 1 – 10    | 0.01    | 10 mL     | 835.10   |

### Acura<sup>®</sup> 855, multichannel macropipettes

| Volume µL | Division µL | Tip style | 8-channel/Cat. No. | 12-channel/Cat. No. |
|-----------|-------------|-----------|--------------------|---------------------|
| 0.5 – 10  | 0.01        | 10 µL     | 855.08.010         | 855.12.010          |
| 5 – 50    | 0.1         | 200 µL    | 855.08.050         | 855.12.050          |
| 40 – 350  | 0.4         | 350 µL    | 855.08.350         | 855.12.350          |

## Ordering information – Accessories

| Description | Packaging | Cat. No. |
|-------------|-----------|----------|
|-------------|-----------|----------|

#### Work station model 340

Fits 3 multi- or single-channel 1 / pack 320.340

#### Universal work station model 337

Fits 7 single-channel micropipettes of most brands

| Description    | Packaging | Cat. No. |
|----------------|-----------|----------|
| Light grey     | 1 / pack  | 320.337G |
| Ice blue       | 1 / pack  | 320.337B |
| Vanilla yellow | 1 / pack  | 320.337Y |
| Mint green     | 1 / pack  | 320.337M |

#### Pasteur pipette adapter-nozzle

for model 835, 5 mL 1 / pack 1.835.633

#### Reservoirs

| Description                                                       | Packaging | Cat. No. |
|-------------------------------------------------------------------|-----------|----------|
| Reagent reservoir, 70 mL, PP, autoclavable                        | 20 / pack | 330.01   |
| Large reagent reservoir with hinged lid, 175 mL, PP, autoclavable | 20 / pack | 330.01L  |
| 8-channel reservoir, 40 mL, PS, sterile, single wrapped           | 10 / pack | 330.08.9 |
| 12-channel reservoir, 40 mL, PS, sterile, single wrapped          | 10 / pack | 330.12.9 |

## Your local distributor

## Standards and compliance

The Acura<sup>®</sup> manual pipettes are designed to operate under national and international standards such as EN ISO 8655, DIN 12650, GMP, GLP, NCCLS. The instruments conform to the CE directive IVD 98/79 EEC (in vitro diagnostic medical devices).

## QC and warranty

Performance values are obtained with bi-dist. water at constant temperature ( $\pm 0.5^{\circ}\text{C}$ ) between 20 and 25°C, in accordance with EN ISO 8655 / DIN 12650.

Each instrument bears its own serial number and passes strict performance control attested by an individual QC certificate. Three year warranty.



**SOCOREX**  
SWISS

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