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# EDUCATION PROMOTION 2023

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## EDUCATION MICROSCOPES E' SERIES

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**3+1**



**HBB010 - Monocular**

**Zuzi**

Monocular head inclined 30° and rotatable 360°.

Achromatic and antifungal objectives: 4x, 10x, 40x (R), 100x (R) (I).

Eyepieces WF10x. Inverted quadruple revolver.

**HBB011 - Binocular**

**Zuzi**

Interpupillary distance: 55-75mm.

Binocular head inclined 30° and rotatable 360°.

Achromatic and antifungal objectives: 4x, 10x, 40x (R), 100x (R) (I).

Eyepieces WF10x. Inverted quadruple revolver.



# GENERAL USE MATERIALS

## Porcelain mortar with pestle



1| With spout. Non glazed inside and base.

| Code   | Capacity | Diameter |
|--------|----------|----------|
| BBC002 | 50 mL    | 80 mm    |
| BBC003 | 100 mL   | 100 mm   |
| BBC004 | 300 mL   | 130 mm   |
| BBC005 | 500 mL   | 160 mm   |

## Glass desiccator, llave recta



1| Made of borosilicate glass. Porcelain disk not included.

| Code   | Capacity | Ø inner |
|--------|----------|---------|
| BDB009 | 250 mm   | 329 mm  |
| BDB010 | 300 mm   | 392 mm  |

## Knob lid desiccator



1| Made of soda lime glass. With porcelain disk.

| Referencia | Capacity | Ø inner |
|------------|----------|---------|
| BDD003     | 4 L      | 200 mm  |
| BDD004     | 7 L      | 250 mm  |
| BDD005     | 14 L     | 300 mm  |

## Bell Jar with ground flange and knob



| Code   | Ø base | h      |
|--------|--------|--------|
| BDJ006 | 300 mm | 400 mm |
| BDJ019 | 180 mm | 300 mm |

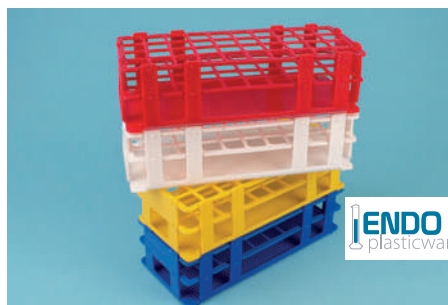
## Test tubes, vidrio sodocálcico



1| Made of sodocalcium glass. With straight rim and round bottom.

| Code   | dxl          | Cap.  | Pack  |
|--------|--------------|-------|-------|
| BGB030 | 15,30x160 mm | 25 mL | C/500 |
| BGB032 | 17,25x180 mm | 35 mL | C/250 |

## Gradillas polipropileno bluees



1| Stackable, alphanumericly identified holes.

| Code   | Holes | Diameter | Colour |
|--------|-------|----------|--------|
| BJB005 | 60    | 16 mm    | White  |
| BJB006 | 60    | 16 mm    | Blue   |
| BJB007 | 60    | 16 mm    | Red    |
| BJB008 | 60    | 16 mm    | Yellow |

## Tray flat without lid HDPE



| Code   | Cap. | Dimensions    |
|--------|------|---------------|
| BTL020 | 2 L  | 300x65x205 mm |
| BTL021 | 3 L  | 350x73x235 mm |
| BTL022 | 5 L  | 435x75x285 mm |
| BTL023 | 8 L  | 490x80x335 mm |
| BTL024 | 10 L | 540x80x388 mm |

## Red rubber stopper



| Code   | Ø inner | Ø upper | Lot |
|--------|---------|---------|-----|
| BMD118 | 11 mm   | 14 mm   | 100 |
| BMD119 | 13 mm   | 16,5 mm | 100 |
| BMD123 | 20 mm   | 24,5 mm | 100 |
| BMD127 | 31.5 mm | 39.5 mm | 100 |

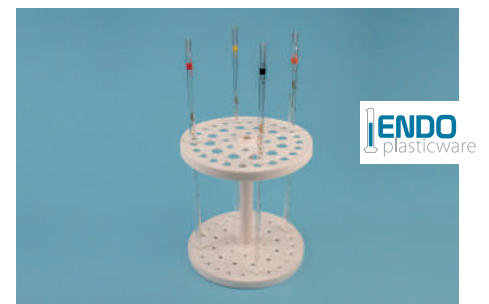
## Test tube rack Z-shaped



1| Made of anodized aluminium. Layout 10 rows x 5 columns.

| Code   | Ø holes | Lot |
|--------|---------|-----|
| BJD001 | 12 mm   | 10  |
| BJD002 | 14,5 mm | 10  |
| BJD003 | 17,0 mm | 10  |

## Round pipette holder



1| 32 holes of diameter 12 mm. 12 holes of diameter 17 mm.

| Code   | Capacity    | Description |
|--------|-------------|-------------|
| BJN008 | 44 pipettes | Fixed       |

### Cardboard tray with lid



1| For standard slides 76x26mm.

| Code    | Capacity | Dimensions   | Lot |
|---------|----------|--------------|-----|
| BPG001  | 2        | 90x70x5 mm   | 50  |
| BPG002  | 3        | 82x28x17 mm  | 50  |
| BPG003  | 4        | 150x110x7 mm | 50  |
| BPG004* | 10       | 400x100x7 mm | 5   |
| BPG005* | 20       | 400x200x7 mm | 5   |

\* Numbered

### Leucocyte digital counter



1| 10 operating keys for different types of leucocytes: basophils, eosinophils, monocytes, lymphocytes mature and immature neutrophils, etc

| Code   | Power supply |
|--------|--------------|
| BRJ002 | 220 V / 50Hz |

## BEAKERS, FLASKS AND OTHER CONTAINERS

### Flask Erlenmeyer narrow neck

BORO  
3.3

ISO  
1773



1| Narrow neck and graduated.

| Code   | Capacity | Lot |
|--------|----------|-----|
| CDB005 | 250 mL   | 10  |
| CDB007 | 500 mL   | 10  |
| CDB008 | 1000 mL  | 10  |

### Stainless steel beaker with spout



1| Made of AISI304 stainless steel.

| Code   | Capacity | h x Ø        |
|--------|----------|--------------|
| CBJ006 | 250 mL   | 85 x 65 mm   |
| CBJ007 | 500 mL   | 110 x 80 mm  |
| CBJ008 | 1000 mL  | 130 x 100 mm |
| CBJ009 | 2000 mL  | 180 x 120 mm |
| CBJ010 | 3000 mL  | 180 x 150 mm |
| CBJ011 | 5000 mL  | 210 x 180 mm |

### Stainless steel jug with spout



1| Made of AISI304 stainless steel.

| Code   | Capacity | h x Ø        |
|--------|----------|--------------|
| CCG008 | 250 mL   | 85 x 65 mm   |
| CCG009 | 500 mL   | 110 x 80 mm  |
| CCG010 | 1000 mL  | 130 x 100 mm |
| CCG011 | 2000 mL  | 180 x 120 mm |
| CCG012 | 3000 mL  | 180 x 150 mm |
| CCG013 | 5000 mL  | 210 x 180 mm |

### Beaker low form



| Code   | Capacity | Diameter | Lot |
|--------|----------|----------|-----|
| CBC016 | 50 mL    | 43 mm    | 12  |
| CBC017 | 100 mL   | 51 mm    | 12  |
| CBC019 | 250 mL   | 70 mm    | 8   |
| CBC020 | 400 mL   | 79 mm    | 8   |
| CBC021 | 600 mL   | 90 mm    | 8   |
| CBC023 | 1000 mL  | 105 mm   | 6   |
| CBC024 | 2000 mL  | 130 mm   | 2   |

### ISO bottle blue cap



1| Graduated, screw DIN GL45. Outlet ring and polypropylene stopper (sterilizable up to 140°C).

| Code   | Capacity | Lot |
|--------|----------|-----|
| CFB014 | 100 mL   | 10  |
| CFB015 | 250 mL   | 10  |
| CFB016 | 500 mL   | 10  |
| CFB017 | 1000 mL  | 10  |
| CFB018 | 2000 mL  | 10  |

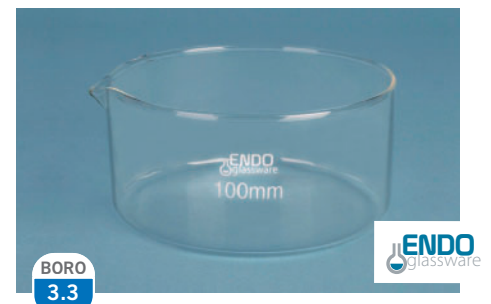
### Wash bottle PE



1| Tube with removable tip.

| Code   | Capacity | Lot |
|--------|----------|-----|
| CKD006 | 100 mL   | 10  |
| CKD007 | 250 mL   | 10  |
| CKD008 | 500 mL   | 10  |
| CKD009 | 1000 mL  | 5   |

### Crystallizing dish with spout



| Code   | Capacity | Lot |
|--------|----------|-----|
| CNL004 | 150 mL   | -   |
| CNL005 | 250 mL   | 6   |
| CNL006 | 500 mL   | -   |
| CNL007 | 1000 mL  | 2   |
| CNL008 | 1500 mL  | -   |

# VOLUMETRY

## Measuring cylinder, glass, "class A"



1| With spout and hexagonal base. Blue graduation..

| Code   | Capacity | Graduation |
|--------|----------|------------|
| DBB004 | 50mL     | 1.0 mL     |
| DBB005 | 100 mL   | 1.0 mL     |
| DBB006 | 250 mL   | 2.0 mL     |
| DBB008 | 1000 mL  | 10.0 mL    |

## PP measuring cylinder graduated



1| Hexagonal base. Permanently moulded graduations

| Code   | Capacity | Lot |
|--------|----------|-----|
| DBJ004 | 100 mL   | 10  |
| DBJ005 | 250 mL   | 6   |
| DBJ006 | 500 mL   | 6   |
| DBJ007 | 1000 mL  | 4   |

## Measuring cylinder, class A



1| With pourout and hexagonal base. Blue graduation.

| Code   | Capacity | Lot |
|--------|----------|-----|
| DBB029 | 25 mL    | 10  |
| DBB030 | 50 mL    | 10  |
| DBB031 | 100 mL   | -   |
| DBB032 | 250 mL   | -   |

## Volumetric flask "class A" w/stopper



1| With batch certificate, white graduation.

| Code   | Capacity | Esm.  | Lot |
|--------|----------|-------|-----|
| DDB004 | 50 mL    | 12/21 | 2   |
| DDB005 | 100 mL   | 12/21 | 2   |
| DDB007 | 250 mL   | 14/23 | 2   |
| DDB008 | 500 mL   | 19/26 | 2   |
| DDB009 | 1000 mL  | 24/29 | 2   |

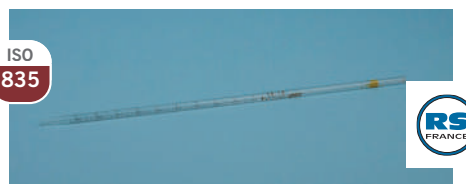
## Grad. pipette class A without bulb



1| With batch certificate, white graduation.

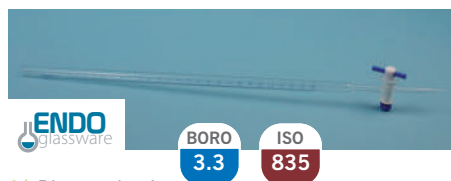
| Code   | Capacity | Graduation | Lot |
|--------|----------|------------|-----|
| DGD001 | 1 mL     | 0.01 mL    | 10  |
| DGD002 | 2 mL     | 0.02 mL    | 10  |
| DGD003 | 5 mL     | 0.05 mL    | 10  |
| DGD005 | 10 mL    | 0.10 mL    | 10  |

## Grad. pipette class B without bulb



| Code   | Capacity | Graduation | Lot |
|--------|----------|------------|-----|
| DGJ005 | 1 mL     | 0.01 mL    | 10  |
| DGJ006 | 2 mL     | 0.01 mL    | 10  |
| DGJ007 | 5 mL     | 0.05 mL    | 10  |
| DGJ008 | 10 mL    | 0.1 mL     | 10  |

## PTFE straight stopcock burette, Class B

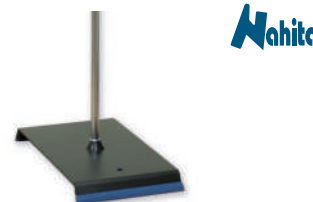


1| Blue graduation.

| Code   | Capacity | Graduation |
|--------|----------|------------|
| DNB007 | 10 ml    | 0.1 mL     |
| DNB008 | 25 ml    | 0.1 mL     |
| DNB009 | 50 mL    | 0.1 mL     |

# LABORATORY ASSEMBLIES AND TOOLS

## Retort stand



1| Reinforced steel plate, chromed steel rod.

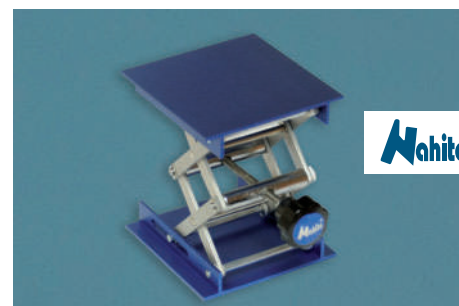
| Code   | Base       | Rod (ØxL) |
|--------|------------|-----------|
| FCB006 | 175x100 mm | 500x10 mm |
| FCB007 | 225x125 mm | 600x10 mm |
| FCB008 | 250x150 mm | 600x10 mm |
| FCB009 | 300x150 mm | 900x10 mm |
| FCB022 | 200x140mm  | 600x10mm  |

## Tripod support stand



| Code   | Base       | Rod (ØxL) |
|--------|------------|-----------|
| FCB010 | 110x170 mm | 600x10 mm |
| FCB011 | 135x210 mm | 700x10 mm |
| FCB012 | 175x300 mm | 800x10 mm |
| FCB013 | 85x130 mm  | 500x10 mm |

## Laboratory jack



1| Made of aluminium with scissor-type support.

| Code   | Base     | Max. load |
|--------|----------|-----------|
| FCDO01 | 10X10 cm | 14 kg     |
| FCDO02 | 15X15 cm | 27 kg     |
| FCDO03 | 20X20 cm | 38 kg     |



### Double clamp for burettes



1| Provided with bosshead for rods up to 13 mm diameter.

| Code   | Material  | Colour |
|--------|-----------|--------|
| FCG012 | Aluminium | White  |

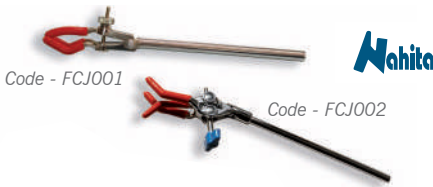
### Clamp PP for one burette



1| Rods from 10 to 14 mm.

| Code   | Capacity  | Lot |
|--------|-----------|-----|
| FCG015 | 1 burette | 6   |

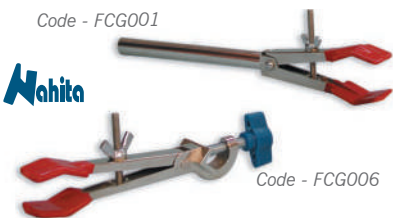
### Clamp 3 prongs without bosshead



1| Chromeplated metal; PVC-coated prongs.

| Code   | Aperture | Rod      |
|--------|----------|----------|
| FCJ001 | 0-30 mm  | 8x125 mm |
| FCJ002 | 0-70 mm  | 8x150 mm |

### Pinza con dedos



1| Chromeplated metal; PVC-coated prongs.

| Code   | Aperture | Adjustment | Lot |
|--------|----------|------------|-----|
| FCG002 | 20-60 mm | No         | 2   |
| FCG003 | 7-25 mm  | No         | -   |
| FCG005 | 4-20 mm  | Yes        | 2   |
| FCG006 | 7-25 mm  | Fixed*     | 2   |
| FCG007 | 12-45 mm | Yes        | -   |
| FCG008 | 7-25 mm  | Yes        | -   |

\* up to Ø 14 mm

### Micro Bunsen burner, GLP



1| With gas and air flow control valve. Connection by means of serrated conical joint.

| Code   | Description |
|--------|-------------|
| FFJ003 | Natural gas |
| FFJ004 | GLP         |
| FFJ006 | GLP         |

### Tripod stand, round ring



1| Rings and legs made of chromeplated steel. Round ring. With rubber caps.

| Code   | Diameter | Height |
|--------|----------|--------|
| FFB001 | 125 mm   | 200 mm |
| FFB002 | 150 mm   | 200 mm |
| FFB003 | 200 mm   | 200 mm |

### Weighing funnel, glass



1| Funnel to weigh substances made of glass. Suitable for high precision weighing.

| Code   | Capacity | Lot |
|--------|----------|-----|
| FKW039 | 3 mL     | 10  |
| FKW040 | 6 mL     | 10  |
| FKW041 | 10 mL    | 10  |

### Lamparilla de alcohol



1| Con sistema de seguridad que evita derramamientos de alcohol en caso de vuelco.

| Code   | Capacity       | Ø mecha |
|--------|----------------|---------|
| FFJ002 | 100 mL         | 4 mm    |
| FFJ010 | Metro de mecha |         |

### Spatula spoon-flat



1| Made of stainless steel AISI304.

| Code   | Longitud | Lot |
|--------|----------|-----|
| FKB005 | 150 mm   | 10  |
| FKB006 | 200 mm   | 10  |
| FKB007 | 230 mm   | -   |

### Measuring scoop, PP



1| Flat bottom with beveled angles

| Code   | Capacity | Lot |
|--------|----------|-----|
| FKW032 | 10 mL    | 6   |
| FKW033 | 25 mL    | 6   |
| FKW034 | 50 mL    | 6   |
| FKW035 | 100 mL   | 6   |
| FKW036 | 250 mL   | 6   |
| FKW037 | 500 mL   | 6   |

### Compass



| Code   | Model              | Diameter | Lot |
|--------|--------------------|----------|-----|
| FZG001 | Aluminium          | 40 mm    | -   |
| FZG002 | Initiation compass | 44 mm    | -   |
| FZG003 | Directional        | 53 mm    | -   |
| FZG004 | Plastic            | 55 mm    | 20  |

**Dissecting kit**

Code - FMQ001



Code - FMQ002

| Code   | Description |
|--------|-------------|
| FMQ001 | 15 pieces   |
| FMQ002 | 9 pieces    |

# CENTRIFUGES

**Digital angle centrifuge, 2615/1**



1 | Elastic suspension motor. Lid safety device.

|                 |                |
|-----------------|----------------|
| <b>Code</b>     | GBF001         |
| <b>Capacity</b> | 6x15 mL        |
| <b>Speed</b>    | 1000-4000 rpm* |
| <b>FCR max</b>  | 1790 g         |

\*steps of 500 rpm

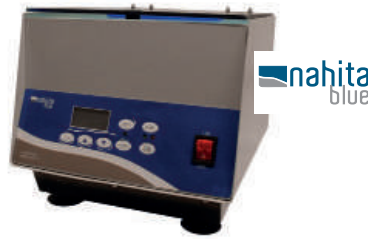
**High speed multirotor centrifuge 2624/2**



1 | Maintenance-free induction motor. Electromechanical closure that prevents the lid from opening during centrifugation.

|                      |                   |
|----------------------|-------------------|
| <b>Code</b>          | GJC002            |
| <b>Capacity máx.</b> | 50 mL (5 mL x 10) |
| <b>Speed (RPM)</b>   | 100~15000 rpm     |
| <b>FCR (xg)</b>      | 20375 xg          |

**Digital angle centrifuge Fugelab-GB10**



1 | Brushless motor. Angular rotor 35°.  
2 | With the GBK003 adapter, 13 x 75mm and 13 x 100 mm Vacutainer tubes can be centrifuged.

|                     |                            |
|---------------------|----------------------------|
| <b>Code</b>         | GBF012                     |
| <b>Capacity máx</b> | 12 tubes Falcon type 15 mL |
| <b>Speed</b>        | 500 - 4000* rpm            |
| <b>FCR max</b>      | 2300 g                     |

\* increase of 50 rpm

**Centrifuge Minifuge-GD06**



1 | Interchangeable rotors (clip type):  
- 32 PCR tubes 0.2 mL, 12 tubes 1.5/2 mL, 12 adapters for 0.2 mL tubes and 12 adapters for 0.5 mL tubes  
- 4 PCR strips of 12 x 0.2 mL  
- 4 x 5 mL (5 mL Eppendorf type tube)  
- 4 x 5 mL (5 mL criotube) and 4 adapters for 1.5/2 mL tubes  
- 12 Hematocrite tubes 40 x 1.5 mm

|                          |            |
|--------------------------|------------|
| <b>Code</b>              | GDC006     |
| <b>Speed range (RPM)</b> | 500-12.000 |
| <b>Max FCR (xg)</b>      | 9660       |
| <b>Max. RPM (RPM)</b>    | 12.000     |

**Digital Angle Centrifuge RS-0506**



|                 |   |
|-----------------|---|
| <b>Code</b>     | GBF015  |
| <b>Capacity</b> | 6 tubes Falcon type 15mL (without adapter)<br>6 Vacutainer type tubes 16x107mm (without adapter)<br>6 Vacutainer type tubes 13x75mm/13x100mm (with orange adapter)<br>6 microtubes 1.5mL/2mL (with white adapter) |
| <b>Speed</b>    | 300 - 5000 (steps of 10)  |
| <b>Max. FCR</b> | 2600 (steps of 10 g)  |

**Mini centrifuge 2507/15**



1 | Angle rotor and transparent lid. Safety lid device.

|                    |  |
|--------------------|--|
| <b>Code</b>        | GDC003   |
| <b>Capacity</b>    | For 8 tubes Eppendorf of 2/1.5 mL (Adapters included for Eppendorf tubes of 0.2 ml/0.5 ml)<br>For 4 strips of 8 tubes of 0.2mL |
| <b>Speed (RPM)</b> | 4000/7000/10000  |
| <b>FCR (xg)</b>    | 990/ 2910/ 5610  |

# OPTICAL EQUIPMENTS

**Abbe refractometer 325**



1 | To measure refractive indices and sugar concentration (Brix).

|              |  |
|--------------|--|
| <b>Code</b>  | HPB002   |
| <b>Range</b> | Refractive index 1,3000-1,7000 nD<br>nD Brix 0-95% |

**Stereomicroscope Model 218/2**



1 | Incident and transmitted LED.

|                               |                   |
|-------------------------------|-------------------|
| <b>Code</b>                   | HDB002            |
| <b>Head</b>                   | Inclined head 45° |
| <b>Eyepieces</b>              | WF10x/20 mm       |
| <b>Distancia interpupilar</b> | 55-75 mm          |
| <b>Objetives</b>              | 2x/4x             |

### Microscopio binocular 107



- 1| Binocular head, 45° inclined and 360° revolving.
- 2| Double-bedded mechanical stage with clamp to accommodate two slides.

|                  |  |
|------------------|--|
| <b>Code</b>      | HBC002   |
| <b>Eyeieces</b>  | WF10x/18 mm +WF16x/11mm (Ø23 mm)   |
| <b>Nosepiece</b> | Quadrupte  |
| <b>Objetives</b> | Achromatic and anti-fungal<br>4x (NA:0.10); 10x (NA:0.25)<br>40x (R) (NA:0.65); 100x (R)(I)(NA:1.25) |

### Microscope serie P, plane achromatic



- 1| Binocular head, 30° inclined and 360° revolving.
- 2| LED light. Abbe condenser (N.A. 1.25) with diaphragm and filter holder. Rechargeable batteries.

|                  |  |           |
|------------------|--|-----------|
| <b>Code</b>      | HBC023   | HBC024    |
| <b>Head</b>      | Binocular  | Triocular |
| <b>Eyeieces</b>  | WF10x/18 mm  |           |
| <b>Revolver</b>  | Cuádruple invertido y giratorio                                    |           |
| <b>Objetives</b> | Plano acromáticos y antifúngicos<br>4x, 10x, 40x (R), 100x (R) (I) |           |

### Zoom stereomicroscope, Z series



- 1| Illumination LED translucent and transmitted. Double working distance (35 and 100 mm).

|                                |                              |
|--------------------------------|------------------------------|
| <b>Code</b>                    | HDD011                       |
| <b>Head</b>                    | Binocular inclined 45°; 360° |
| <b>Eyeieces</b>                | WF10x/20 mm                  |
| <b>Interpupillary distance</b> | 55-75 mm                     |
| <b>Objetives</b>               | 1x                           |

### Zuzi spectrophotometer 4101

Code - HJB001



Code - HJB002



- 1| Code HJB002 allows calculation of concentrations by taking a sample of known concentration as a reference or by entering the value of the factor F (Abs=F x conc.)
- 2| Includes two glass cuvettes and a black cell for autozeroing.

|                              |                     |        |
|------------------------------|---------------------|--------|
| <b>Code</b>                  | HJB001              | HJB002 |
| <b>Wavelength range</b>      | 330 - 1000 nm       |        |
| <b>Band width</b>            | 8 nm                |        |
| <b>Photometric range</b>     | 0-105% T; 0-1,999 A |        |
| <b>Wavelength accuracy</b>   | ±2 nm               |        |
| <b>Wavelength resolution</b> | ±1 nm               |        |

### Espectrofotómetro VIS 4211/20



- 1| Digital adjustment of wavelength.
- 2| Compartment for 4 cells of 10 mm (external exchanger). Includes 4 glass cells, 10 mm pathlength

|                            |                             |
|----------------------------|-----------------------------|
| <b>Code</b>                | HJB003                      |
| <b>Wavelength range</b>    | 325 - 1000 nm               |
| <b>Band width</b>          | 4 nm                        |
| <b>Photometric range</b>   | 0-125% T / -0,097 - 1,999 A |
| <b>Wavelength accuracy</b> | ±2 nm                       |
| <b>Wavelength accuracy</b> | ±1 nm                       |

### Glass and quartz standard cells



- 1| They have two polished walls and have a cap (not airtight)

| Code          | Light path | Capacity | Lot |
|---------------|------------|----------|-----|
| <b>Glass</b>  |            |          |     |
| HJK001        | 1 mm       | 0.35 mL  | 2   |
| HJK004        | 10 mm      | 3.50 mL  | 2   |
| HJK007        | 50 mm      | 17.50 mL | 2   |
| <b>Quartz</b> |            |          |     |
| HJL001        | 1 mm       | 0.35 mL  | 2   |
| HJL004        | 10 mm      | 3.50 mL  | 2   |

### Digital refractometer Brix



- 1| Para medir el contenido en azúcar en diferentes muestras tales como jugo de frutas, jarabes, puré, bebidas de café, bebidas de cacao, refrescos, aceite de corte soluble en agua, solución de lavado soluble en agua, etc.

| Code                       | HPC001          |            |          |
|----------------------------|-----------------|------------|----------|
|                            | Range           | Resolution | Accuracy |
| <b>Brix%</b>               | 0,0 - 50,0      | 0,1        | ±0.2     |
| <b>Refractive index nD</b> | 1.3330 - 1.4200 | 0.0001     | ±0.0003  |

| Code                       | HPC002          |            |          |
|----------------------------|-----------------|------------|----------|
|                            | Range           | Resolution | Accuracy |
| <b>Brix%</b>               | 0.0 - 90.0      | 0.10       | ±0.2     |
| <b>Refractive index nD</b> | 1.3330 - 1.5177 | 0.0001     | ±0.0003  |

| Code                       | HPC003          |            |          |
|----------------------------|-----------------|------------|----------|
|                            | Range           | Resolution | Accuracy |
| <b>Brix%</b>               | -               | -          | -        |
| <b>Refractive index nD</b> | 1.3330 - 1.4200 | 0.0001     | ±0.0003  |
| <b>Dextrose %</b>          | 0.0 - 10.6      | 0.10       | ±0.2     |
| <b>Fructose %</b>          | 0.0 - 68.9      | 0.10       | ±0.2     |
| <b>Glucose %</b>           | 0.0 - 59.9      | 0.10       | ±0.2     |
| <b>Lactose %</b>           | 0.0 - 16.5      | 0.10       | ±0.2     |
| <b>Maltose %</b>           | 0.0 - 15.6      | 0.10       | ±0.2     |

# HEATING - COOLING

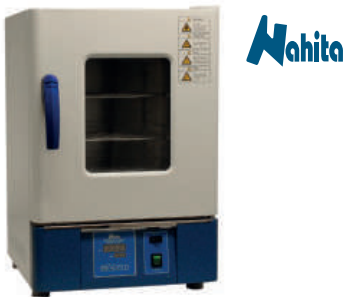
## High precision incubator, model 642



1| Mirror stainless steel inner chamber and shelf, convenient for cleaning and disinfection, outer plate is coated with Akzo powder.  
With glass door inside.

|                   |            |         |
|-------------------|------------|---------|
| Code              | JBB006     | JBB007  |
| Capacity          | 43 L       | 63 L    |
| Temperature range | +5 a 65 °C |         |
| Power             | 0.25 Kw    | 0.25 Kw |

## Drying oven 30 L, Series 631 Plus



1| Air circulation system by natural convection (by changing densities).  
2| Supplied with two height-adjustable grille trays.

|                      |               |        |
|----------------------|---------------|--------|
| Code                 | JBD001        | JBD002 |
| Capacity             | 30 L          | 45 L   |
| Fluctuación de temp. | ± 1.0 °C      |        |
| Temp. range          | 80°C a 250 °C |        |
| Power                | 0.8 Kw        | 1.0 Kw |

## Basic hot plate



|             |        |                 |
|-------------|--------|-----------------|
| Code        | JGJ002 | JGJ003          |
| Temp. media | 250°C  | 400°C - 250°C   |
| Plate       | 1      | 2               |
| Plate dim.  | ø187mm | ø157mm - ø187mm |
| Power       | 1500W  | 2250W           |

## Digital water bath



1| Stainless steel tank in one piece free of welds, coupled to an exterior metal cabinet with epoxy coating.  
2| Señal acústica al finalizar el tiempo seleccionado, en modo continuo o en periodos programados. Señal acústica que indica el sobrecalentamiento del baño (>5°C de la temperatura seleccionada).  
3| Bomba de drenaje y conector lateral para manguera de desagüe (excepto JDD001). Tapa desmontable, con holes y anillos reductores.

|                               |                   |             |             |             |
|-------------------------------|-------------------|-------------|-------------|-------------|
| Code                          | JDD001            | JDD002      | JDD003      | JDD004      |
| Capacity                      | 3 L               | 6 L         | 12 L        | 18 L        |
| Temperature range             | RT +5 °C / 100 °C |             |             |             |
| Resolution                    | 0.1 °C            |             |             |             |
| Timer                         | 1 - 9999 min      |             |             |             |
| Holes                         | 1                 | 2           | 4           | 6           |
| Useful Approx. dimensions(mm) | 160x160x130       | 305x160x130 | 305x305x130 | 470x305x130 |

## Heating mantles serie 655



1| It has a device for holding rods. Maximum temperature 380 °C.  
2| Painted steel exterior cabinet and interior thermal insulation with mineral fibre wool, with chrome nickel heating elements.

| Code   | Capacity | Ø inner |
|--------|----------|---------|
| JGD002 | 100 mL   | 70 mm   |
| JGD003 | 250 mL   | 90 mm   |
| JGD004 | 500 mL   | 105 mm  |
| JGD005 | 1000 mL  | 140 mm  |
| JGD006 | 2000 mL  | 180 mm  |

## RS-120S dry bath



1| Blocks not included.

|                   |                   |
|-------------------|-------------------|
| Code              | JDS007            |
| Temperature range | RT to 120°C       |
| Timer             | 1 min - 99h 59min |
| Power             | 160 W             |
| Dimensions aprox. | 290x175x85mm      |

## Battery of analog heating mantles

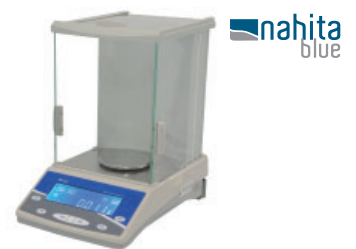


1| Continuous operating mode with temperatures up to 450 °C on the surface of the blanket. Includes an aluminum support rod and mounting clip.

| Code   | Capacity | Puestas |
|--------|----------|---------|
| JGD011 | 250 mL   | 6       |
| JGD013 | 500 mL   | 6       |

# MEASURING INSTRUMENTS

## Precision balance series 5133

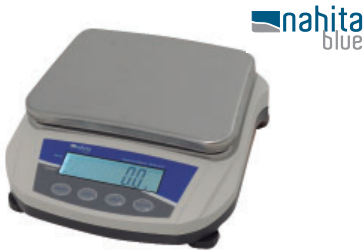


1| Automatic calibration by external weight (included). RS232 and USB outputs..

|               |         |         |
|---------------|---------|---------|
| Code          | KBD002  | KBD003  |
| Max. capacity | 300 g   | 500 g   |
| Repeatability | 0.001 g | 0.001 g |
| Weight        | 0.2* kg | 0.2* kg |

\* included



**Electronical balance, series 5161**


- 1| Plastic housing and stainless steel plate.
- 2| Rechargeable battery included.

| Code                 | KBB004  | KBB005 | KBB025  |
|----------------------|---------|--------|---------|
| <b>Max. capacity</b> | 1000 g  | 2000 g | 500g    |
| <b>Repeatability</b> | 0.1 g   | 0.1 g  | 0.1g    |
| <b>Weight</b>        | 0.5* kg | 1 kg   | 0.5* kg |

\* included

**Medidor PH de bolsillo PH60**


- 1| Pocket pH tester with data transmission to mobile phone or tablet. Waterproof (IP67). Bulb glass membrane (KDG017). Replaceable electrodes.

|              |                                  |
|--------------|----------------------------------|
| <b>Code</b>  | KDB007                           |
| <b>Range</b> | -2/16 pH; $\pm$ 1000 mV; 0/50 °C |
| <b>ATC</b>   | 0/50 °C                          |

**Portable pH/mV/Temperature meter**


|                        |                  |
|------------------------|------------------|
| <b>Code</b>            | KDD010           |
| <b>Measuring range</b> |                  |
| pH                     | 0,00~14,00 pH    |
| mV                     | 0~ $\pm$ 1999 mV |
| Temperature            | 0~100 °C         |
| <b>Resolution</b>      |                  |
| pH                     | 0.01 pH          |
| mV                     | 1 mV             |
| Temperature            | 0,1 °C           |

**Pocket conductimeter tester EC5 Premium**


|                     |  |
|---------------------|--|
| <b>Code</b>         | KGB011   |
| <b>Parameters</b>   | EC/ °C   |
| <b>Temp. range</b>  | 0/50 °C  |
| <b>Conductivity</b> |  |
| Range               | 0-200.0 $\mu$ S/cm; 0-2000 $\mu$ S/cm<br>0-20.00 mS/cm |
| Resolution          | 0.1/1 $\mu$ S, 0.01 mS / $\pm$ 1%Fs                    |
| Calibration         | 1 a 3 puntos   |
| <b>Salinidad</b>    | 0 a 10.00 ppt  |

**Tiras pH 0-14, con 4 almohadillas**


| Code   | pH   | Pack  |
|--------|------|-------|
| KDJ037 | 0-14 | C/100 |

**Benchtop conductimeter EC700**


- 1| Including: 3 x 50 ml bags Calibration standards. Electrodes with temperature probe (KZD018).

|                     |   |
|---------------------|---|
| <b>Code</b>         | KGD005  |
| <b>Conductivity</b> |   |
| Range               | 0 – 19.99 $\mu$ S/cm; 20.0 – 199.9 $\mu$ S/cm<br>200-1999 $\mu$ S/cm; 2 – 19.99 mS/cm<br>20 - 200.0 mS/cm |
| Resolution          | 0.01/0.1/1 $\mu$ S, 0.01/0.1 mS   |
| Accuracy            | $\pm$ 1.0% FS $\pm$ 1 digit   |
| ATC                 | 0 – 50°C  |
| Calibration         | 1 a 3 puntos  |
| <b>Temperature</b>  | 0 – 100°C   |

**Precision balance, series 5162**


| Code                 | KBC002  | KBC004 |
|----------------------|---------|--------|
| <b>Max. capacity</b> | 500 g   | 2000 g |
| <b>Repeatability</b> | 0.01 g  | 0.01 g |
| <b>Weight</b>        | 0.5* kg | 1 kg   |

\* included

**Precision balance, series 5173**


| Code                 | KBD004   | KBD005  |
|----------------------|----------|---------|
| <b>Max. capacity</b> | 100 g    | 300 g   |
| <b>Repeatability</b> | 0.001 g  | 0.001 g |
| <b>Weight</b>        | 0.05* kg | 0.2* kg |

\* included

**Portable conductimeter EC850**


|             |   |
|-------------|---|
| <b>Code</b> | KGD004  |
| Range:      | -0-19.99 $\mu$ S/cm, 20.0-199.9 $\mu$ S/cm, 200-1999 $\mu$ S/cm, 2.0-200.0 mS/cm / 0.1 mg/mL-100 g/L (TDS) / 0.0 a 100.0°C; |
| Resolution: | 0.01/0.1/1 $\mu$ S/cm, 0.01/0.1 mS/cm   |
| Accuracy:   | $\pm$ 1.0% F.S / 0.40 mg/mL-1.00g/L / $\pm$ 0.5°C   |

**Pocket timer**



1| Provided with: clamp to hold it on the pocket, magnet to fix it on metallic surfaces and small ring to keep it in a vertical position. Clock mode 12/24 h

|                   |               |
|-------------------|---------------|
| <b>Code</b>       | KKF002        |
| <b>Dimensions</b> | 52x67x25 mm   |
| <b>Power</b>      | 1 button cell |

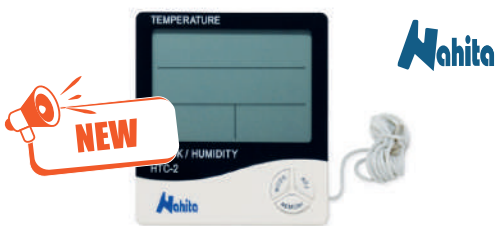
**Thermometer with max. and min. values**



1| The thermometer has digital display, maximum and minimum temperature memory function, with hook hole, can be hung on windows or walls. It is waterproof, can be placed directly outside.

|                          |                 |
|--------------------------|-----------------|
| <b>Code</b>              | KJM024          |
| <b>Temperature range</b> | -20 °C / +50 °C |
| <b>Accuracy</b>          | ± 1 °C          |
| <b>Resolution</b>        | 0.1 °C          |

**Thermometer Hygrometer**



1| It has a 12/24h clock function with alarm. Can be hung up thanks to the hole in the back. Made of ABS.

|                               |                                 |
|-------------------------------|---------------------------------|
| <b>Code</b>                   | KJM025                          |
| <b>Measurement range</b>      |                                 |
| <b>Temperature</b>            | -10°C ~ +50°C                   |
| <b>Humidity</b>               | 10% ~ 90% RH                    |
| <b>Accuracy</b>               |                                 |
| <b>Temperature / Humidity</b> | ± 1 °C (1,8°F) / ± 5% HR        |
| <b>Resolution</b>             |                                 |
| <b>Temperature / Humidity</b> | 0,1 °C (0,2 °F) / 1% HR         |
| <b>Power supply</b>           | 1 x 1,5V AAA battery (included) |

**Digital thermometer with removable probe**



|                   |                             |
|-------------------|-----------------------------|
| <b>Code</b>       | KJJ005                      |
| <b>Range</b>      | -50 / 300 °C (-58/572 °F)   |
| <b>Resolution</b> | 0.1 °C (0.1 °F)             |
| <b>Power</b>      | 1 button battery 1.5V (AAA) |



**EC/TEMPERATURE METER POCKET-SIZE**

Made of ABS

|                     |                    |
|---------------------|--------------------|
| <b>Code</b>         | KZD027             |
| <b>EC</b>           |                    |
| Range               | 0-19990 µS/cm      |
| Resolution/Accuracy | 10 µS/cm / ±2% F.S |
| Calibration         | 1 to 3 points      |
| <b>TEMP</b>         |                    |
| Range               | 50° C / 70 °C      |
| Resolution          | 0.1°C              |
| Accuracy            | ±1°C               |



**PH/TDS/EC/ORP/TEMP. METER POCKET-SIZE**

Made of ABS

|                     |                            |
|---------------------|----------------------------|
| <b>Code</b>         | KZD028                     |
| <b>pH</b>           |                            |
| Range               | 0.00-14.00                 |
| Resolution/Accuracy | 0.01pH/0.05pH              |
| Calibration         | 1 to 3 points              |
| <b>EC</b>           |                            |
| Range               | 0-19990 µS/cm              |
| Resolution/Accuracy | 1 µS/cm; 0,1mS/cm / ±2%F.S |
| Calibration         | 1 to 3 points              |
| <b>TDS</b>          |                            |
| Range               | 1-9990 ppm                 |
| Resolution/Accuracy | 1ppm;0,1ppt / ±2%F.S       |
| Calibration         | 1 to 3 points              |
| <b>ORP</b>          |                            |
| Range               | 0~±1000 mV                 |
| Accuracy            | ±0.2%Fs                    |
| Temperature         | 0-50°C                     |
| Probe               | Flat                       |
| <b>TEMP</b>         |                            |
| Range               | 0.0-60.0°C                 |
| Resolution          | 0.1°C                      |
| Accuracy            | ±1°C                       |



**PORTABLE DISSOLVED OXYGEN METER DO8500**

|                         |   |
|-------------------------|---|
| <b>Code</b>             | KZB004  |
| <b>Dissolved oxygen</b> |   |
| Range                   | 0-200 %; 0 – 20.0 mg/L  |
| Resolution              | 0.1/1 %, 0.01/0.1 mg/L  |
| Accuracy                | ±2% of reading or ±2% of saturation ±2% of reading or ±0.2 mg/L (ppm) |
| Calibration             | Zero oxygen and saturated oxygen                                      |
| Comp. temperature       | 0 a 50°C  |
| Comp. air pressure      | Automatic from 60 to 120 kPa  |
| Comp. of salinity       | Automatic/manual; 0-45 ppt  |
| <b>Temperature</b>      |   |
| Range                   | From 0 to 50 °C   |



**MEDIDOR PORTÁTIL MULTIPARAMÉTRICO**

|                     |  |
|---------------------|--|
| <b>Code</b>         | KZD007   |
| <b>Model</b>        | PC850  |
| <b>Parameters</b>   | pH/mV/Temp/Cond/TDS  |
| <b>pH</b>           |  |
| Range               | 0-14   |
| Resolution          | 0.1/0.01 pH  |
| Accuracy            | ±0.01 pH ± 1 digit   |
| Temp. compensation  | 0-100°C  |
| Calibration         | 1 to 3 points (USA/ NIST)  |
| <b>mV</b>           |  |
| Range               | ±1000 mV   |
| Resolution          | 1 mV   |
| Accuracy            | ± 0.2% FS ± 1 digit  |
| <b>Conductivity</b> |  |
| Range               | 0 – 19.99 µS/cm; 20.0 – 199.9 µS/cm 200-1999 µS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm |
| Resolution          | 0.01/0.1/1 µS, 0.01/0.1 mS   |
| Accuracy            | ± 1.0% FS ± 1 digit  |
| Temp. compensation  | 0 – 50°C   |
| Calibration         | 1 to 3 points  |
| <b>Temperature</b>  | 0 – 100°C  |

# AGITATION

## Magnetic stirrer with heating 690/1



1 | Supplied with rod, nut and clamp, and magnet.

|                             |                    |
|-----------------------------|--------------------|
| <b>Code</b>                 | LBB001             |
| <b>Speed range</b>          | 10-2000 rpm        |
| <b>Max. stirring volume</b> | 2 L                |
| <b>Temp. range</b>          | Atmosphere - 180°C |
| <b>Plate material</b>       | Anodised aluminium |

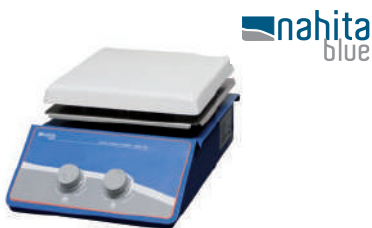
## Stirrer with heating RSLAB-1C



1 | Brushless, maintenance-free motor. Overheating protection.

|                             |                    |
|-----------------------------|--------------------|
| <b>Code</b>                 | LBB005             |
| <b>Speed range</b>          | 0-1500 rpm         |
| <b>Max. stirring volume</b> | 20 L               |
| <b>Temp. range</b>          | Atmosphere - 340°C |
| <b>Plate material</b>       | Stainless steel    |
| <b>Plate diameter</b>       | Ø 135 mm           |

## Magnetic stirrer with heating, 693



1 | Supplied with rod, clamp and magnet.

|                             |                    |
|-----------------------------|--------------------|
| <b>Code</b>                 | LBB006             |
| <b>Max. speed</b>           | 100-1500 rpm       |
| <b>Max. stirring volume</b> | 20 L               |
| <b>Max. temperature</b>     | Atmosphere - 350°C |
| <b>Plate size</b>           | 190 x 190 mm       |

## Digital magnetic stirrer with heating, 693/1



|                             |                    |
|-----------------------------|--------------------|
| <b>Code</b>                 | LBD009             |
| <b>Max. speed</b>           | 100-1500 rpm       |
| <b>Max. stirring volume</b> | 20 L               |
| <b>Temp. range</b>          | Atmosphere - 350°C |
| <b>Plate material</b>       | Metallic*          |

\* ceramic coated

## Digital stirrer with heating RSLAB-6C



|                         |                               |
|-------------------------|-------------------------------|
| <b>Code</b>             | LBD010                        |
| <b>Readability</b>      | 0,1                           |
| <b>Speed range</b>      | 100-1500rpm                   |
| <b>Max. temperature</b> | 500°C                         |
| <b>Accuracy</b>         | ±1°C (<100°C)<br>±1% (>100°C) |
| <b>Max. capacity</b>    | 30L                           |
| <b>Plate dimensions</b> | 254x254mm                     |

## Magnetic stirrer RSLab 1M-Mini



1 | With rod and electrode clamp. PET plate with high chemical resistance.

|                    |              |
|--------------------|--------------|
| <b>Code</b>        | LBG011       |
| <b>Capacity</b>    | 1,5 L        |
| <b>Speed range</b> | 300-2000 rpm |
| <b>Ø. plate</b>    | 120 mm       |

## Digital vortex for multiple tubes



|                           |  |
|---------------------------|--|
| <b>Code</b>               | LGB004   |
| <b>Speed range</b>        | 300 – 2500 rpm                                   |
| <b>Stirring movement</b>  | Orbital ø 4 mm<br>Clockwise;<br>Counterclockwise |
| <b>Tiempo</b>             | 1–999 min; continuous                            |
| <b>Approx. dimensions</b> | 400 x 249 x 440 mm                               |
| <b>Approx. weight</b>     | 18 Kg  |

## LED Digital Rocking Shaker SK-1807-S



|                             |                   |
|-----------------------------|-------------------|
| <b>Code</b>                 | LJB004            |
| <b>Angle of inclination</b> | 7°                |
| <b>Max. shaking weight</b>  | 2 Kg              |
| <b>Speed</b>                | 10-80 rpm         |
| <b>Weight</b>               | 3,1 Kg            |
| <b>Dimensions</b>           | 294X348X123 mm    |
| <b>Voltage/Frequency</b>    | 100-240V, 50/60Hz |
| <b>Consumption</b>          | 20W               |

## Digital orbital shaker 685/2



|                               |                |
|-------------------------------|----------------|
| <b>Code</b>                   | LJN001         |
| <b>Speed range</b>            | 30-240 rpm     |
| <b>Stirring movement</b>      | Orbital        |
| <b>Ø orbital of agitation</b> | 24 mm          |
| <b>Timer</b>                  | 5h 59min 59s   |
| <b>Max. shaking weight</b>    | 15 Kg          |
| <b>Platform size</b>          | 310x282 mm     |
| <b>Approx. dimensions</b>     | 380x280x150 mm |
| <b>Approx. weight</b>         | 9,5 Kg         |

**Orbital shaker (small size) RSLAB-16 D**



|                                  |                |
|----------------------------------|----------------|
| <b>Code</b>                      | LJN005         |
| <b>Speed range</b>               | 40-200 rpm     |
| <b>Movement of agitation</b>     | Orbital        |
| <b>Ø orbital shaker</b>          | 20 mm          |
| <b>Timer</b>                     | 1min-19h59 min |
| <b>Max. shaking weight</b>       | 2 Kg           |
| <b>Temp. atmosphere/humidity</b> | 5-40°C, 80% RH |
| <b>Platform size</b>             | 268 x 268 mm   |

**Shaking incubator**



|                            |                                     |
|----------------------------|-------------------------------------|
| <b>Code</b>                | LNB003                              |
| <b>Amplitude</b>           | Ø 20 mm                             |
| <b>Type of movement</b>    | Cyclotron oscillation               |
| <b>Capacity</b>            | 16x100 mL /<br>10x250 mL / 6x500 mL |
| <b>Capacity of chamber</b> | 50 L                                |
| <b>Speed range</b>         | 30-300 rpm                          |
| <b>Speed accuracy</b>      | ± 1 rpm                             |
| <b>Temp. range</b>         | +5° C a +65° C                      |
| <b>Temp. accuracy</b>      | ± 0.1° C                            |

**HANDLING OF LIQUIDS**

**Electronic pipette controller**

DIGIPETTE



|             |        |
|-------------|--------|
| <b>Code</b> | MBD002 |
|-------------|--------|

**Premium micropipette, variable volume**



DIGIPETTE

1 | Fully autoclavable. Precise Capacity adjustment with built-in locking system. Universal tip compatibility.

| Code   | Capacity µL | Division µL |
|--------|-------------|-------------|
| MGB088 | 0.1-2.5     | 0.002       |
| MGB089 | 0.5-10      | 0.02        |
| MGB090 | 2-20        | 0.02        |
| MGB091 | 5-50        | 0.1         |
| MGB092 | 10-100      | 0.1         |
| MGB093 | 20-200      | 0.2         |
| MGB094 | 100-1000    | 1           |
| MGB095 | 500-5000    | 10          |
| MGB096 | 1000-10000  | 20          |

**Premium multi-channel pipette**

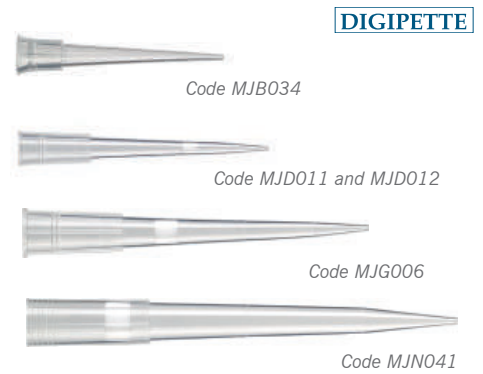


DIGIPETTE

1 | Fully autoclavable. Precise Capacity adjustment with built-in locking system. Universal tip compatibility.

| Code               | Range     | Increase |
|--------------------|-----------|----------|
| <b>8 Channels</b>  |           |          |
| MGG028             | 0,5-10 µl | 0,02 µl  |
| MGG029             | 2-20 µl   | 0,02 µl  |
| MGG030             | 5-50 µl   | 0,1 µl   |
| MGG031             | 10-100 µl | 0,1 µl   |
| MGG032             | 20-200 µl | 0,2 µl   |
| MGG033             | 30-300 µl | 0,2 µl   |
| <b>12 Channels</b> |           |          |
| MGG037             | 10-100 µl | 0,1 µl   |
| MGG038             | 20-200 µl | 0,2 µl   |

**Pipette tips - High Quality**

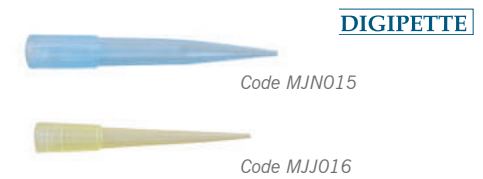


DIGIPETTE

1 | DNAsa/RNAsa/Pyrogen/Pyrogen/Endotoxin free

| Code   | Vol.    | Packaging | Lot |
|--------|---------|-----------|-----|
| MJB034 | 10 µL   | 96 pcs    | 10  |
| MJD011 | 20 µL   | 96 pcs    | 10  |
| MJD012 | 20 µL   | 96 pcs    | 10  |
| MJG006 | 100 µL  | 96 pcs    | 10  |
| MJN041 | 1000 µL | 96 pcs    | 6   |

**Pipette tips**



DIGIPETTE

| Code   | Capacity    | Packaging |
|--------|-------------|-----------|
| MJJ016 | 2-200 µL    | 1000 pcs. |
| MJN015 | 100-1000 µL | 500 pcs.  |

**Micropipette Digipette Junior**



DIGIPETTE

| Réf.   | Capacity µL | Inaccuracy µL |
|--------|-------------|---------------|
| MGD095 | 5           | 1,2           |
| MGD096 | 10          | 0,8           |
| MGD097 | 20          | 0,5           |
| MGD098 | 25          | 0,3           |
| MGD099 | 50          | 0,3           |
| MGD100 | 100         | 0,3           |
| MGD101 | 200         | 0,2           |

|              |        |
|--------------|--------|
| <b>Stand</b> | MGT025 |
|--------------|--------|



### Manual pipette controller

#### DIGIPETTE



1| Knurled loading wheel can be turned to pick up or dispense liquid with accuracy.

| Code   | Capacity | Colour | Lot |
|--------|----------|--------|-----|
| MBJ007 | 2 mL     | Blue   | 10  |
| MBJ008 | 10 mL    | Green  | 10  |
| MBJ009 | 25 mL    | Red    | 10  |

### Digital dispenser DFLOW

DVAB



1| Manufactured according to DIN EN ISO 8655. FEP inner components, with very low chemical reactivity.

| Code   | Max. Vol. | Capacity range |
|--------|-----------|----------------|
| MDG003 | 10mL      | 0.1-99.99 mL   |

### Bottle dispenser

#### DIGIPETTE



1| Autoclavable fully assembled.  
2| For bottles with GL45 thread. Includes adapters for other thread types.

| Code   | Range Capacity |
|--------|----------------|
| MDD001 | 0.5-5.0 mL     |
| MDD002 | 1.0-10.0 mL    |
| MDD004 | 5.0-50.0 mL    |

### Rubber pipette filler with 3 adapters

ENDO  
plasticware



| Code   | For pipettes | Lot |
|--------|--------------|-----|
| MBL019 | Up to 10 mL  | 10  |
| MBL020 | Up to 100 mL | 10  |

### BW Series Peristaltic Pump

Nahita



1| For pumping small volumes safely and accurately.  
2| 4-roller head. Reversible flow.

|                  |                |
|------------------|----------------|
| Code             | MPD001         |
| Max. speed       | 100 rpm        |
| Speed resolution | 0,1 rpm        |
| Max. flow rate   | 16,5 ml/min    |
| Engine type      | Paso a paso DC |
| Temp. atmosphere | 0 - 40°C       |

### CT Series Peristaltic Pump

Nahita



1| Pump compatible with various types of Heads, not included. See table.  
2| Incorporates 4 intelligent working modes: transfer, quantitative, timing, quantitative/timing. Reversible flow.

|                  |            |
|------------------|------------|
| Code             | MPD003     |
| Max. speed       | 600 rpm    |
| Max. flow rate   | 306 ml/min |
| Speed resolution | 0,1 rpm    |
| Suction angle    | 10°-720°   |
| Suction speed    | 10-300 rpm |
| Temp. atmosphere | 0-40°C     |

### Suction system for biological liquids

DVAB



1| The vacuum power can be set at different levels to achieve a suction speed from 1 mL/s to 15 mL/s.  
2| Bottle, tube and handle for waste collection fully autoclavable.

|      |        |
|------|--------|
| Code | MPG002 |
|------|--------|

### BT Series Peristaltic Pump

Nahita



1| Pump compatible with various types of Heads, not included. See table.  
2| Can be used in both laboratory and industrial applications. Reversible flow.

|                  |            |
|------------------|------------|
| Code             | MPD002     |
| Max. speed       | 100 rpm    |
| Speed resolution | 0,1 rpm    |
| Max. flow rate   | 380 ml/min |
| Error de flujo   | <0,5%      |
| Suction angle    | 10°-720°   |
| Suction speed    | 10-100 rpm |
| Temp. atmosphere | 0-40°C     |

### Peristaltic pump heads

1| Optional pump heads for peristaltic pumps MPD002 and MPD003.

| Code   | Model   |
|--------|---------|
| MPD004 | YZ1515x |
| MPD005 | YZ2515x |
| MPD006 | TX315   |
| MPD007 | TX325   |

# SEPARATION AND FILTRATION

## Soxhlet extraction system



ENDO  
glassware

1| Made of borosilicate glass.

|                           |         |         |
|---------------------------|---------|---------|
| <b>Code</b>               | PBC003  | PBC002  |
| <b>Capacity</b>           | 250 mL  | 125 mL  |
|                           | PBN028  | PBN027  |
|                           | PBR004  | PBR002  |
|                           | PBK010  | PBK008  |
| <b>Extraction thimble</b> | PBD010* | PBD008* |

\* not included

## Rotary Evaporator model 503



Nahita

1| Set of ground joint glass 29/32 (included). 500 mL evaporation flask.

|                              |        |
|------------------------------|--------|
| <b>Code</b>                  | PGB002 |
| <b>Bath capacity</b>         | 3 L    |
| <b>Speed range</b>           | 90 rpm |
| <b>Max. bath temperature</b> | 100 °C |

## Büchner funnel, porcelain



Nahita

1| Glazed inside and outside except for rim.

| Code   | Diameter | Lot |
|--------|----------|-----|
| PNF001 | 40 mm    | 12  |
| PNF002 | 50 mm    | 12  |
| PNF003 | 70 mm    | 4   |
| PNF004 | 95 mm    | 4   |

## Rotary evaporator RS100-S

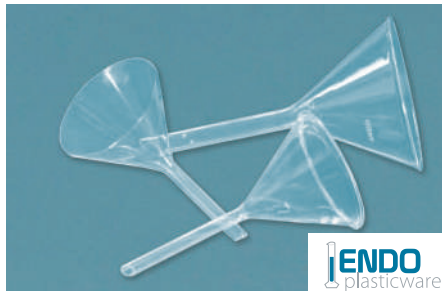


RS Lab

1| Reversible direction of rotation. USB interface. Protection Class: IP20.

|                            |                                     |
|----------------------------|-------------------------------------|
| <b>Code</b>                | PGB009                              |
| <b>Speed range</b>         | 20-200 rpm                          |
| <b>Temp. range</b>         | RT to -180°C                        |
| <b>Cool accuracy</b>       | Water: ±1°C Oil: ±3°C               |
| <b>Stroke displacement</b> | Manual 110 mm<br>+ auxiliary 100 mm |

## Short stem funnel, glass



ENDO  
plasticware

1| 60° cone angle.

| Code   | Glass        | Diameter | Vol.   | Lot |
|--------|--------------|----------|--------|-----|
| PNB001 | Borosilicate | 40mm     | 10 mL  | 16  |
| PNB002 | Borosilicate | 50 mm    | 30 mL  | 16  |
| PNB003 | Borosilicate | 75 mm    | 100 mL | 10  |
| PNB004 | Borosilicate | 90 mm    | 150 mL | 10  |
| PNB005 | Borosilicate | 100 mm   | 200 mL | 8   |
| PNB006 | Soda         | 120 mm   | 400 mL | 8   |
| PNB007 | Soda         | 150 mm   | 750 mL | 6   |

## Funnel PP



ENDO  
plasticware

| Code   | Diameter | Lot |
|--------|----------|-----|
| PNC001 | 50 mm    | 50  |
| PNC002 | 75 mm    | 10  |
| PNC003 | 100 mm   | 10  |
| PNC004 | 150 mm   | 12  |



HYDROLAB  
WATER PURIFICATION SYSTEMS

WATER PURIFICATION SYSTEM BASIC 5

CODE - PDB007

1| The purified water, depending on the flow rate of the tap water, has a conductivity ranging from 0.2 to 0.8 μS/cm and meets the requirements of the standard ISO 3696: 1999 for grade 2 water.

|                                  |                |
|----------------------------------|----------------|
| <b>Water supply</b>              | Tap water      |
| <b>Dimensions</b>                | 235x440x510 mm |
| <b>Water production capacity</b> | 1-2 L/min      |
| <b>Conductivity</b>              | 0,06-0,8 μS/cm |
| <b>Pressure gauge</b>            | For feed water |



HYDROLAB  
WATER PURIFICATION SYSTEMS

WATER PURIFICATION SYSTEM ULTRA

CODE - PDB008

1| Automatic equipment for producing ultrapure water type I, with a recirculation circuit with a TOC ion exchange module, a 254 nm photooxidation module (UV lamp) and a 0.45/0.2 μm cascade microfiltration capsule.

2| The purified water meets the requirements of the standard ISO 3696: 1999 for grade 1 water.

|                         |  |
|-------------------------|--|
| <b>Water supply</b>     | Pretreated water<br>(purity grade II or III) |
| <b>Dimensions</b>       | 235x470x570 mm                               |
| <b>Water production</b> | 1 L/min minimum                              |
| <b>Conductivity</b>     | < 0,055 μS/cm                                |

## Filtration equipment



ENDO  
glassware

| Code   | Description               |
|--------|---------------------------|
| PJB001 | For 47mm membranes 300 mL |

### Vacuum manifold kit glass



1 | Filtration kit consisting of a 6-position filtration manifold, 6 glass filter holders and 6 300mL glass funnels for 47mm membranes with their corresponding aluminum clamps, one-hole rubber stopper and manifold connectors.

|                  |        |
|------------------|--------|
| <b>Code</b>      | PJB013 |
| <b>Positions</b> | 6      |
| <b>Capacity</b>  | 300 mL |

### Vacuum manifold kit, INOX



1 | Filtration kit for 47mm membranes, all in 316 stainless steel.

|                  |        |        |        |
|------------------|--------|--------|--------|
| <b>Code</b>      | PJB018 | PJB021 | PJB023 |
| <b>Positions</b> | 1      | 1      | 6      |
| <b>Capacity</b>  | 300 mL | 500 mL | 500 mL |

### Filter standard



1 | Box of 100 units.

| <b>Code</b>                | <b>Ø</b> |
|----------------------------|----------|
| Standard - Flat            |          |
| PSB003                     | 90 mm    |
| PSB004                     | 100 mm   |
| PSB005                     | 130 mm   |
| PSB006                     | 150 mm   |
| PSB009                     | 250 mm   |
| Qualitative, medium - flat |          |
| PSF034                     | 70 mm    |
| PSF036                     | 110 mm   |
| PSF039                     | 150 mm   |

### Chemically resistant membrane vacuum pump



|                            |                       |                       |
|----------------------------|-----------------------|-----------------------|
| <b>Code</b>                | PXB010                | PXB011                |
| <b>Speed</b>               | 20 L/min              | 30 L/min              |
| <b>Presión máx. vacío</b>  | ≥0.08 Mpa<br>200 mbar | ≥0.095 Mpa<br>50 mbar |
| <b>Power</b>               | 160W                  | 160 W                 |
| <b>Working temperature</b> | 7-40 °C               | 7-40 °C               |
| <b>Heades</b>              | 1                     | 2                     |

### Water jet pump for vacuum



1 | Made of polypropylene. Easily dismantled for cleaning, autoclavable.

|              |        |
|--------------|--------|
| <b>Code</b>  | PXL004 |
| <b>mm Hg</b> | 191,5  |
| <b>bar</b>   | 9,804  |

## PROTECTION

### Lab-coat 100% cotton



| <b>Code</b> | <b>Para</b> | <b>Talla</b> |
|-------------|-------------|--------------|
| RBB001      | Man         | S            |
| RBB002      | Man         | M            |
| RBB003      | Man         | L            |
| RBB004      | Man         | XL           |
| RBB009      | Woman       | S            |
| RBB010      | Woman       | M            |
| RBB011      | Woman       | L            |
| RBB012      | Woman       | XL           |

### Safety eyewear 520



1 | Can be worn over prescription glasses. The uncoated (UC) version can be sterilized.

|             |        |
|-------------|--------|
| <b>Code</b> | RBG012 |
|-------------|--------|

### Safety goggle 601



1 | Category III PPE(polycarbonate lens). Category III PPE(polycarbonate lens). Anti-Scratch Plus and Anti-Fog Plus.

|             |        |
|-------------|--------|
| <b>Code</b> | RBG001 |
|-------------|--------|

### Basic safety goggles 602



1 | Overlap with prescription glasses. Adjustable elastic fabric headband.

| <b>Code</b> | <b>Lens</b> | <b>Frame</b> | <b>Lot</b> |
|-------------|-------------|--------------|------------|
| RBG002      | Transparent | Transparent  | 10         |

### Gloves



1 | 100% unpowdered Nitrile glove. Highly elastic. Ambidextrous. Box of 100 units.

| <b>Code</b> | <b>Size</b> | <b>Lot</b> |
|-------------|-------------|------------|
| RBL005      | S 6/7       | 10         |
| RBL006      | M 7/8       | 10         |
| RBL007      | L 8/9       | 10         |
| RBL008      | XL 9/10     | 10         |

# OTHERS

## Digital ultrasonic bath without heating



1 | AISI304 stainless steel water resistant tank. Includes lid and basket with handles for a better grip.

|                         |              |
|-------------------------|--------------|
| <b>Code</b>             | ZCC015       |
| <b>Frequency</b>        | 42KHz        |
| <b>Capacity</b>         | 800 mL       |
| <b>Adjustable timer</b> | 0-30 minutos |
| <b>Potencia</b>         | 35W          |
| <b>Dimensions</b>       |              |
| Tank                    | 168×94×67mm  |
| Unit                    | 194×120×124  |

## Digital ultrasonic bath with heating



1 | Includes lid and basket with handles for a better grip.

|                               |                    |             |
|-------------------------------|--------------------|-------------|
| <b>Code</b>                   | ZCC016             | ZCC019      |
| <b>Capacity (L)</b>           | 2                  | 6           |
| <b>Dim. tanque (LxWxH)</b>    | 150x140x100        | 300x155x150 |
| <b>Heating power (W)</b>      | 100                | 300         |
| <b>Ultrasound power (W)</b>   | 60                 | 180         |
| <b>Adjustable temperature</b> | From room to 80 °C |             |
| <b>Adjustable timer</b>       | 1-99 minutos       |             |

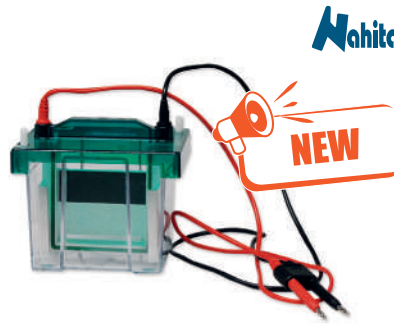
## Autoclave sterilization tape



1 | Length: 50 mm and Height : 19 mm.

|                      |                              |
|----------------------|------------------------------|
| <b>Code</b>          | ZCM002                       |
| <b>Sterilisation</b> | Autoclaving: 20 min at 121°C |
|                      | Autoclaving: 10 min at 125°C |
|                      | Autoclaving: 5 min at 135°   |

## Vertical electrophoresis cell



1 | Complete: tank, lid with electrodes, gel support, gel casting device, plane and notched glass plates and set of combs.

|                               |                         |
|-------------------------------|-------------------------|
| <b>Code</b>                   | ZFD005                  |
| <b>Number of gels</b>         | 1 ó 2                   |
| <b>Gel size (WxL)</b>         | 82x88 mm                |
| <b>Glass plate size (WxL)</b> | 100x100 mm              |
| <b>Gel thickness</b>          | 0,75 mm, 1,0 mm, 1,5 mm |
| <b>Number of samples</b>      | 11 o 15 por gel         |
| <b>Buffer volume</b>          | 750 mL                  |
| <b>Dimensions (LxAxH)</b>     | 150x120x115 mm          |

## Counting chamber CE



| Code   | Description                            |
|--------|--|
| ZMB018 | Double net ruling dark-lined           |
| ZMB021 | Standard, double net ruling dark-lined |
| ZMB024 | Standard, double net ruling dark-lined |
| ZMB027 | Standard, double net ruling dark-lined |
| ZMB028 | Double net ruling dark-lined           |

## Unidad dispensadora de parafina



1 | Depósito de parafina de gran Capacity. Calentamiento rápido y uniforme.

|   |                       |
|---|-----------------------|
| <b>Code</b>                               | ZFP006                |
| <b>Paraffin tank capacity</b>             | 5 L                   |
| <b>Max. set point temp. of hot zones</b>  | 99 °C, step of ± 1 °C |
| <b>Temp. range of the samll cold spot</b> | 99 °C, step of ± 1 °C |
| <b>Control mode</b>                       | Manual or by pedal    |
| <b>Capacity</b>                           | 120 moulds            |
|   | 140 cassettes         |
| <b>Power supply</b>                       | 220VAC, 50/60Hz       |
| <b>Power consumption</b>                  | 1800W/10A             |

## Manual rotary microtome, basic



1 | Manual microtome with sample advance system. Internal handwheel locking device. Standard clamp and knife (12cm).

|                                 |          |
|---------------------------------|----------|
| <b>Code</b>                     | ZFP010   |
| <b>Section thickness</b>        | 1-25 µm  |
| <b>Min. adjustment</b>          | 1 µm     |
| <b>Precision</b>                | ±10%     |
| <b>Max. specimen size</b>       | 25x35 mm |
| <b>Horizontal sample stroke</b> | 35 mm    |
| <b>Greenial sample stroke</b>   | 46 mm    |

# AND THERE'S MORE!

UP TO  
**10%**  
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### 1. PHYSICS ARTICLES

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